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HAWAII INST OF GEOPHYSICS HONOLULU

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SEDIMENT CORE DESCRIPTIONS: R/V KANA KEOKI 1972 CRUISE, EASTERN--ETC(U)

JUN 76 J E ANDREWS, J A FOREMAN

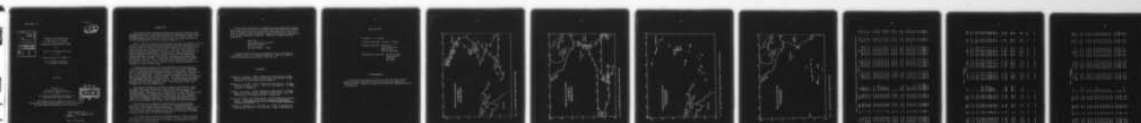
N00014-75-C-0209

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SEDIMENT CORE DESCRIPTIONS:  
R/V KANA KEOKI 1972 CRUISE,  
EASTERN AND WESTERN PACIFIC OCEAN



ADA 038181

By

Staff of the Sediment Core Lab  
of the  
Hawaii Institute of Geophysics  
J. E. Andrews, In Charge  
J. A. Foreman, Supervisor

JUNE 1976

Prepared for

OFFICE OF NAVAL RESEARCH  
under Contract N00014-75-C-0209  
and  
INTERNATIONAL DECADE OF OCEAN EXPLORATION  
under NSF Grant ID071-04207-A04



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UNIVERSITY OF HAWAII





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164 400

See 1473

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Approved by Director

*George T. Galloway*

Date: 30 June 1976

## INTRODUCTION

This report presents megascopic descriptions of deep-sea sediment cores obtained by personnel of the Hawaii Institute of Geophysics on cruises of the R/V Kana Keoki in the eastern and western Pacific Ocean during the year 1972. The ship tracks and the location of stations taken for coring operations by the R/V Kana Keoki during 1972 are shown in Figures 1 to 4.

Table I provides a chronological listing of the cores and indicates corrected satellite-navigation-determined coordinates for each coring operation, as well as water depth (m), length of core(m), and geological age of the oldest sediments for each core (if dating was possible). The core length (Table 1) represent ship-board measurements and may, in some cases, not agree with the actual lengths determined later in the laboratory. The ages provided are based on planktonic microfossils, generally foraminifera or radiolarians. Designations used for ages are as follows: Quaternary (Q), Pliocene (TP), Miocene (TM), Oligocene (TO). Questionable age determinations are followed by a question mark (?). In some cases the age is followed by the alpha character "N" and a number [e.g., Pliocene (N19)], which corresponds to the foraminiferal zones of Blow (1969).

Following these tables are found descriptions of the structural and lithologic sequences encountered in each core, as well as their sedimentary units, as determined by microscope examination of smear slides. The nomenclature used follows that established for deep-sea sediments by JOIDES for the Deep Sea Drilling Project. Cores are numbered according to ship (cruise) name, year, sample types, and sample number. For example KK 72-PC 21 indicates R/V Kana Keoki cruise 1972, Piston Core #21. The station number also appears in each heading to further identify each core. Other sample types include freefall core (FFC) and triggercores (TC). PCOD refers to a piston core obtained with a core orienting device.

The standard procedure of preliminary sediment core analysis used at the Hawaii Institute of Geophysics is described by Andrews *et al.* (1970). Following cold storage at 2° - 4°C, cores are split into "working" and "archive" halves. The working half is sampled for: porosity (50-cm intervals); micropaleontological analysis (top and bottom and/or at noted lithologic contacts); paleomagnetic analysis (10-cm intervals); and other samples as requested by individual researchers. Shear strength measurements are also made at 20-cm intervals using a model G-200 Genora Fall Cone Penetrometer.

The archive half is sampled every 50-cm and/or at noted lithologic contacts for smear slides which are used in the subsequent microscopic description of the various sediment components. A visual description of each core is also made from the archive half, including diagrams of sedimentary structures and boundaries throughout each core, color variations (according to Munsell color code), and textural variations.

The working half is stored in an air-tight plastic sleeve; the archive half in a plastic sleeve and protective plastic "D" tube. The archive half is maintained in cold storage at 2° - 4°C while the working half is kept in dry storage at room temperature.

These initial descriptions, in addition to those presented by Andrews, et al. (1970, 1973, 1975) for the Solomon Islands 1968-1969, Murray Fracture Zone and Western Pacific 1970, and Eastern and Western Pacific 1971, will serve as a guide to samples available through the Sediment Core Analysis Lab of the Hawaii Institute of Geophysics. Requests for samples should be directed to:

Chris Mato  
Hawaii Institute of Geophysics  
University of Hawaii  
2525 Correa Road  
Honolulu, Hawaii 96822

The work reported herein was accomplished under the direction of J. E. Andrews, with J. A. Foreman as supervisor. Data were logged by graduate and undergraduate students in the core lab.

#### REFERENCES

- Andrews, J. E., et al. (1970) Sediment Core Descriptions: Solomon Islands 1968-69, and Murray Fracture Zone, 1967, HIG-70-25. Data Report No. 16, Hawaii Institute of Geophysics.
- Andrews, J. E., et al. (1973) Sediment Core Descriptions: R/V Mahi 1970 Cruise, Western Pacific. HIG-73-7, Data Report No. 24, Hawaii Institute of Geophysics.
- Andrews, J. E., et al. (1975) Sediment Core Descriptions: R/V Kana Keoki 1971 Cruise, Eastern and Western Pacific Ocean. HIG-75-15, Data Report No. 28, Hawaii Institute of Geophysics.
- Blow, W. H. (1969) "Late Middle Eocene to Recent Planktonic Biostratigraphy". Proceedings of the First International Conference on Planktonic Microfossils, Vol. 1. E. J. Brill, Leiden, Netherlands.
- Gilliard, T., Hammond, S. R., and Seyb, St. (1976), A new device for measuring the behavior of a piston corer. Subm. to Deep-Sea Res.

CORE LAB STAFF

In Charge: J. E. Andrews

Technical Supervisor: Jerome A. Foreman

Graduate Assistants: Gareth Au  
Bruce Barraclough  
Walter Busch  
Charles Landmesser

Undergraduate Assistants: Norman Patterson  
Galen Peterson  
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ACKNOWLEDGMENTS

This project was supported by Office of Naval Research Contract N00014-75-C-0209 and National Science Foundation under IDOE Grant ID071-04207-A04. Additional support was provided by the Hawaii Institute of Geophysics.





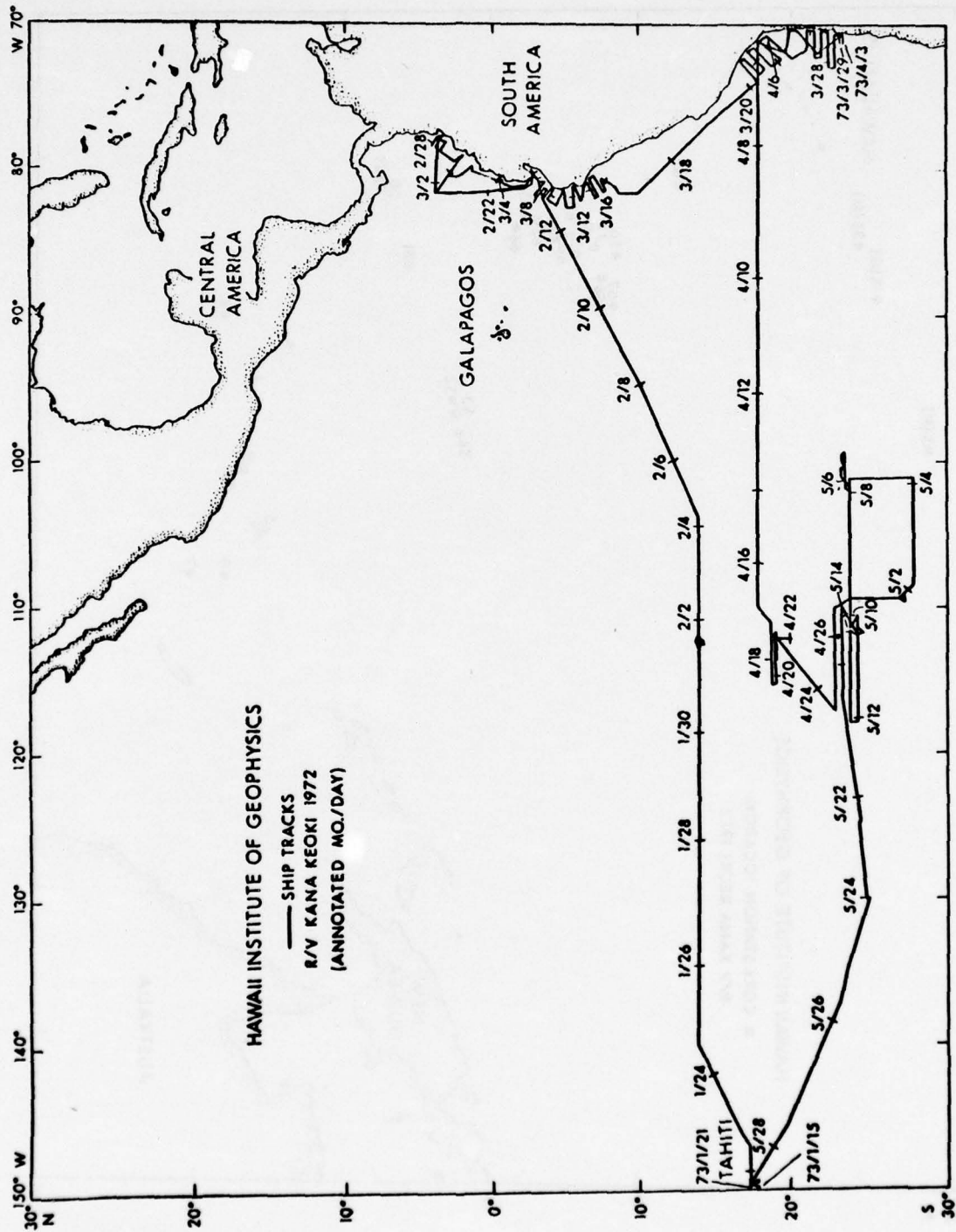


Fig. 2. R/V KANA KEOKI 1972 ship tracks, eastern Pacific Ocean.





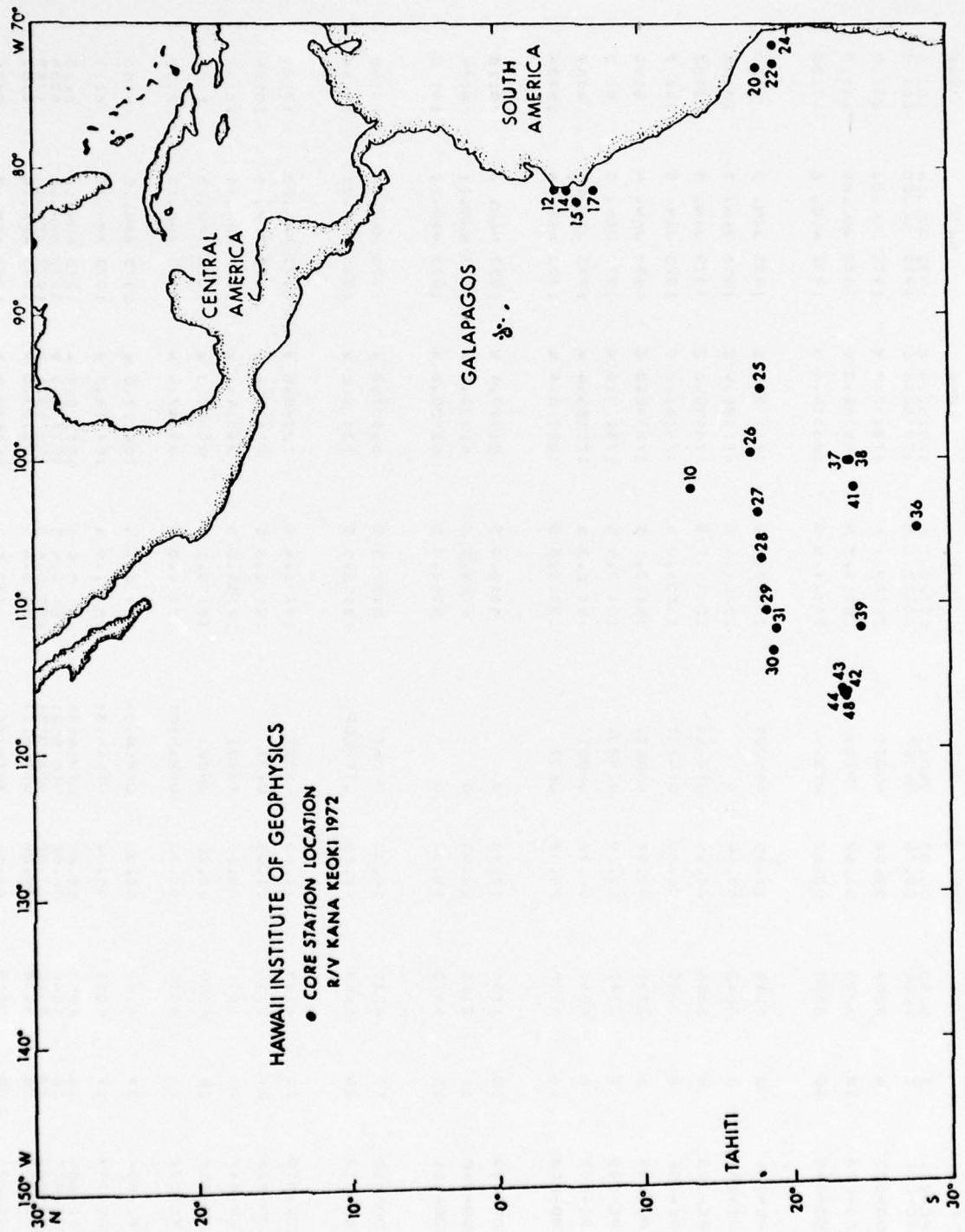


Fig. 4. Core station locations, eastern Pacific Ocean.

Table 1. Chronological Listing of Cores Obtained During R/V KANA KEOKI 1972 Cruise

| CORE<br>TYPE # | STA<br># | DEPTH<br>(M) | LENGTH<br>(M) | AGE      | LAT       | LOCATION   | LONG | DATE        | TIME  | PAGE |
|----------------|----------|--------------|---------------|----------|-----------|------------|------|-------------|-------|------|
| PC-001         | 3        | 5255         | 06.73         | UNDET    | 28:29.1 N | 179:52.8 E |      | 1972 JUL.16 | 16: 5 | A-1  |
| PC-001         | 3        | 5255         | 00.75         | UNDET    | 28:28.1 N | 179:52.8 E |      | 1972 JUL.16 | 16: 5 | A-3  |
| PCOD-002       | 4        | 5263         | 07.00         | UNDET    | 29:59.1 N | 178: 2.2 W |      | 1972 JUL.23 | 23:19 | A-4  |
| PCOD-003       | 18       | 3233         | 01.62         | TP(7)    | 25:15.3 N | 169:56.3 W |      | 1972 JUL.29 | 11:15 | A-5  |
| PCOD-004       | 35       | 3605         | 03.44         | UTM      | 24:11.5 N | 166:16.6 W |      | 1972 AUG. 2 | 13:20 | A-6  |
| PC-001         | 2        | 3240         | 11.45         | Q(N22)   | 20:22.5 S | 171: 5.5 E |      | 1973 JAN. 3 | 7:20  | A-7  |
| PC-002         | 3        | 3043         | 07.64         | Q        | 17:54.6 S | 171:21.4 E |      | 1973 JAN. 3 | 23:45 | A-11 |
| PC-003         | 4        | 2656         | 00.46         | UTP-LQP  | 15:34.7 S | 174:10.2 E |      | 1973 JAN. 5 | 2:37  | A-13 |
| PC-004         | 5        | 3229         | 06.80         | Q(N23)   | 15:31.0 S | 175:41.2 E |      | 1973 JAN. 5 | 14: 7 | A-14 |
| PC-005         | 6        | 2291         | 00.07         | UNDET.   | 15:30.9 S | 178:42.8 E |      | 1973 JAN. 6 | 8:34  |      |
| PC-006         | 7        | 2342         | 12.19         | Q(N23)   | 16: 8.9 S | 175: 9.6 W |      | 1973 JAN. 8 | 9: 2  | A-16 |
| PC-007         | 8        | 4831         | 09.76         | UNDET    | 18: 0.3 S | 170:55.4 W |      | 1973 JAN.10 | 4:39  | A-20 |
| PCOD-008       | 10       | 4558         | 24.38         | Q(7)     | 13:19.0 S | 102: 6.4 W |      | 1973 FEB. 4 | 22:28 | A-21 |
| PCOD-009       | 12       | 1705         | 10.18         | Q        | 4:10.5 S  | 81:23.4 W  |      | 1973 MAR. 9 | 19:10 | A-22 |
| PCOD-010       | 14       | 2165         | 03.95         | Q        | 4:58.9 S  | 81:35.4 W  |      | 1973 MAR.11 | 4:25  | A-23 |
| PCOD-011       | 15       | 4373         | 15.23         | Q        | 5:42.0 S  | 82:20.9 W  |      | 1973 MAR.11 | 19: 8 | A-24 |
| PCOD-012       | 17       | 4830         | 00.37         | UNDET    | 6:52.3 S  | 81:31.8 W  |      | 1973 MAR.14 | 0:52  | A-26 |
| PCOD-013       | 20       | 6443         | 06.78         | UTP-LQP  | 17:52.9 S | 73: 4.2 W  |      | 1973 MAR.21 | 19:54 | A-27 |
| PCOD-015       | 22       | 4158         | 11.68         | UNDET    | 19: 1.4 S | 72:48.5 W  |      | 1973 MAR.23 | 17:29 | A-28 |
| PCOD-016       | 24       | 3736         | 01.03         | Q(7)     | 19: 2.8 S | 71:33.4 W  |      | 1973 APR. 5 | 19:59 | A-29 |
| PCOD-017       | 25       | 4401         | 09.15         | TM(7)    | 17:59.5 S | 95:14.1 W  |      | 1973 APR.11 | 20:12 | A-30 |
| PCOD-018       | 26       | 4089         | 08.70         | UNDET    | 18: 0.1 S | 99:47.3 W  |      | 1973 APR.13 | 1:55  | A-31 |
| FFC-002        | 26       | 4035         | 00.62         | UTM(N18) | 18: 0.0 S | 99:47.6 W  |      | 1973 APR.13 | 2:32  | A-32 |
| FFC-004        | 27       | 4108         | 00.86         | UTM(N18) | 18: 2.1 S | 104:17.6 W |      | 1973 APR.15 | 4:50  | A-33 |
| PCOD-019       | 27       | 4052         | 04.34         | UTM(N18) | 18: 1.9 S | 104:18.3 W |      | 1973 APR.15 | 6:11  | A-34 |
| FFC-006        | 28       | 4063         | 00.69         | UTM(N18) | 18: 0.4 S | 107: 0.9 W |      | 1973 APR.16 | 0:15  | A-35 |
| FFC-007        | 28       | 4068         | 00.82         | UTM(N18) | 18: 0.4 S | 107: 0.0 W |      | 1973 APR.16 | 0:24  | A-36 |
| PCOD-020       | 28       | 4072         | 01.60         | UTM(N18) | 18: 0.4 S | 106:59.6 W |      | 1973 APR.16 | 1:47  | A-37 |
| FFC-008        | 28       | 4078         | 00.62         | UTM(N18) | 18: 0.4 S | 106:59.6 W |      | 1973 APR.16 | 1:51  | A-38 |
| PCOD-021       | 29       | 3525         | 05.54         | TP(N19)  | 18:22.9 S | 110:25.9 W |      | 1973 APR.17 | 2:26  | A-39 |

Table 1. (continued)

| CORE<br>TYPE # | STA<br># | DLPTH<br>(M) | LENGTH<br>(M) | AGE      | LAT       | LOCATION   | LONG | DATE        | TIME  | PAGE |
|----------------|----------|--------------|---------------|----------|-----------|------------|------|-------------|-------|------|
| FFC-010        | 30       | 3114         | 00.97         | Q        | 18:50.4 S | 113:16.3 W |      | 1973 APR.17 | 20:1  | A-40 |
| FFC-013        | 30       | 3034         | 01.20         | Q        | 18:50.5 S | 113:31.4 W |      | 1973 APR.17 | 21:23 | A-41 |
| FFC-015        | 30       | 3104         | 01.00         | Q        | 18:50.5 S | 113:38.4 W |      | 1973 APR.17 | 22:5  | A-42 |
| FFC-018        | 30       | 3117         | 00.55         | Q        | 18:50.4 S | 113:44.5 W |      | 1973 APR.17 | 23:36 | A-43 |
| PCOD-022       | 30       | 3127         | 03.19         | Q        | 18:50.1 S | 113:43.6 W |      | 1973 APR.17 | 23:42 | A-44 |
| PCOD-023       | 31       | 3429         | 07.36         | Q        | 19:01.1 S | 111:45.3 W |      | 1973 APR.19 | 3:20  | A-45 |
| FFC-019        | 36       | 3446         | 01.00         | OP(N22)  | 28:02.2 S | 104:43.8 W |      | 1973 MAY 3  | 0:55  | A-46 |
| FFC-020        | 36       | 3456         | 01.02         | OP(N22)  | 28:03.3 S | 104:43.9 W |      | 1973 MAY 3  | 1:19  | A-47 |
| PCOD-024       | 36       | 3455         | 02.97         | Q        | 28:05.5 S | 104:45.3 W |      | 1973 MAY 3  | 3:12  | A-48 |
| PCOD-025       | 37       | 4089         | 00.42         | UTM(N18) | 23:40.4 S | 100:08.8 W |      | 1973 MAY 6  | 21:41 | A-49 |
| FFC-021        | 38       | 4097         | 00.86         | TP-Q(?)  | 23:40.4 S | 100:09.1 W |      | 1973 MAY 7  | 5:10  | A-50 |
| FFC-022        | 38       | 4161         | 00.90         | UNDET    | 23:40.4 S | 100:08.9 W |      | 1973 MAY 7  | 5:12  | A-51 |
| FFC-023        | 38       | 4224         | 00.80         | TP-G(?)  | 23:40.4 S | 100:08.7 W |      | 1973 MAY 7  | 5:16  | A-52 |
| FFC-024        | 38       | 4224         | 00.76         | UNDET    | 23:40.4 S | 100:08.4 W |      | 1973 MAY 7  | 5:19  | A-53 |
| FFC-025        | 38       | 4226         | 00.97         | UNDET    | 23:40.4 S | 100:08.2 W |      | 1973 MAY 7  | 5:23  | A-54 |
| FFC-027        | 38       | 4200         | 00.94         | UNDET    | 23:40.4 S | 100:07.5 W |      | 1973 MAY 7  | 5:32  | A-55 |
| PCOD-026       | 38       | 4225         | 03.08         | Q        | 23:40.4 S | 100:08.1 W |      | 1973 MAY 7  | 7:20  | A-56 |
| FFC-028        | 39       | 2598         | 00.35         | Q        | 24:29.5 S | 111:43.1 W |      | 1973 MAY 15 | 4:43  | A-57 |
| FFC-033        | 39       | 3211         | 00.47         | QP       | 24:29.5 S | 111:33.8 W |      | 1973 MAY 15 | 6:7   | A-58 |
| FFC-036        | 39       | 2759         | 00.86         | QH(N23)  | 24:29.4 S | 111:28.3 W |      | 1973 MAY 15 | 6:59  | A-59 |
| FFC-037        | 39       | 2788         | 00.18         | QP(N22)  | 24:29.4 S | 111:27.8 W |      | 1973 MAY 15 | 7:4   | A-60 |
| FFC-040        | 41       | 2990         | 00.34         | OP(N22)  | 24:29.1 S | 111:50.6 W |      | 1973 MAY 16 | 5:33  | A-61 |
| FFC-041        | 41       | 2951         | 00.15         | QH(N23)  | 24:28.9 S | 111:52.7 W |      | 1973 MAY 16 | 5:45  | A-62 |
| FFC-043        | 41       | 2876         | 00.43         | QH(N23)  | 24:28.3 S | 111:57.1 W |      | 1973 MAY 16 | 6:10  | A-63 |
| PCOD-028       | 42       | 3059         | 01.42         | Q        | 23:38.8 S | 116:13.1 W |      | 1973 MAY 18 | 20:24 | A-64 |
| PCOD-029       | 43       | 3286         | 00.14         | UNDET.   | 23:30.6 S | 115:59.0 W |      | 1973 MAY 19 | 0:53  | A-65 |
| FFC-051        | 44       | 2982         | 01.03         | Q        | 23:31.2 S | 115:47.8 W |      | 1973 MAY 19 | 3:25  | A-66 |
| PCOD-030       | 44       | 3163         | 00.29         | Q        | 23:32.0 S | 115:26.5 W |      | 1973 MAY 19 | 7:6   | A-67 |

Table 1. (continued)

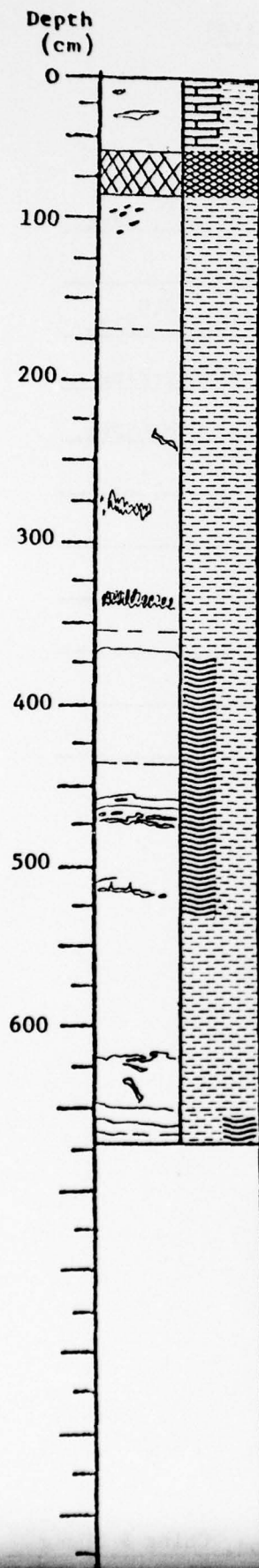
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| PCOD-031       | 45       | 2909         | 00.18         | Q       | 23:33.6 S | 115:41.0 W | 1973 MAY 19 | 16:19 | A-68  |
| FFC-058        | 48       | 3234         | 00.96         | Q       | 23:31.1 S | 115:58.7 W | 1973 MAY 20 | 2:19  | A-69  |
| PCOD-032       | 49       | 4569         | 05.51         | TP(N19) | 7:38.6 S  | 161:35.1 W | 1973 JUN. 7 | 22:38 | A-70  |
| PCOD-033       | 50       | 4613         | 05.06         | LTM     | 7:27.0 S  | 162:12.2 W | 1973 JUN. 8 | 7:15  | A-73  |
| PCOD-034       | 51       | 5134         | 04.54         | Q(?)    | 5:37.3 S  | 167:28.5 W | 1973 JUN.10 | 4:44  | A-75  |
| PCOD-035       | 52       | 5554         | 09.04         | LTP     | 2:37.6 S  | 176:52.4 W | 1973 JUN.12 | 12:58 | A-76  |
| PCOD-036       | 53       | 5631         | 09.76         | LTM     | 2:24.6 S  | 177:44.2 W | 1973 JUN.13 | 0:42  | A-77  |
| PCOD-037       | 54       | 5342         | 12.25         | LTM     | 2: 9.1 S  | 178:58.1 W | 1973 JUN.13 | 14:35 | A-79  |
| PCOD-038       | 55       | 4668         | 12.09         | UTM-LTP | 5:23.5 N  | 164:24.5 W | 1973 JUN.22 | 1:19  | A-80  |
| PCOD-039       | 56       | 5194         | 13.28         | LTO     | 8:30.8 N  | 166:51.0 W | 1973 JUN.23 | 9:23  | A-83  |
| PCOD-040       | 57       | 5516         | 11.94         | LTM     | 8:27.9 N  | 170: 7.5 W | 1973 JUN.24 | 6:43  | A-85  |
| PCOD-041       | 58       | 4996         | 06.00         | Q(?)    | 7:37.3 N  | 168:22.3 W | 1973 JUN.25 | 10:32 | A-89  |
| PCOD-042       | 59       | 5008         | 16.71         | UTO     | 7:10.3 N  | 166:13.4 W | 1973 JUN.26 | 6:55  | A-91  |
| PCOD-043       | 60       | 5039         | 11.60         | TM      | 7:10.4 N  | 166:12.8 W | 1973 JUN.26 | 10: 8 | A-92  |
| PCOD-044       | 61       | 4703         | 07.57         | LTM     | 5:27.5 N  | 165:29.0 W | 1973 JUN.27 | 1:22  | A-94  |
| PCOD-045       | 62       | 5342         | 12.69         | TP      | 3:16.1 N  | 164:33.3 W | 1973 JUN.27 | 20:27 | A-95  |
| PCOD-046       | 63       | 5258         | 12.75         | TM      | 2:26.9 N  | 164:12.9 W | 1973 JUN.28 | 7:15  | A-98  |
| PCOD-047       | 64       | 5348         | 14.28         | Q       | 1:45.2 N  | 164:54.7 W | 1973 JUN.29 | 0:57  | A-99  |
| PCOD-048       | 65       | 5509         | 11.99         | UTM     | 4:13.7 N  | 165:49.8 W | 1973 JUN.29 | 19:51 | A-106 |
| PCOD-049       | 65       | 5247         | 17.96         | TM      | 4:22.7 N  | 165:53.0 W | 1973 JUN.30 | 0:31  | A-109 |
| PCOD-050       | 66       | 4880         | 05.28         | UTO-LTM | 4:42.2 N  | 165:37.4 W | 1973 JUN.30 | 13: 3 | A-111 |
| PCOD-051       | 67       | 5421         | 08.62         | Q       | 12:44.4 N | 161:59.4 W | 1973 JUL. 3 | 16:35 | A-112 |



**APPENDIX**  
**Core Descriptions**

A-1

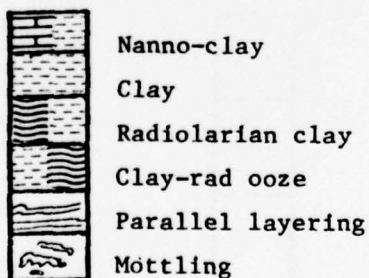
## GENERAL SUMMARY FORM



Core No. KK72 PC 01 Sta. 3  
 Location Midway  
Lat. 28°28.05'N  
Long. 179°52.82'W

## GENERAL MEGASCOPIC DESCRIPTION

0-69cm: Brown ( $10 \text{ yr}^4/3$ ) rad bearing nanno  
 clay; 47-57% clay, 39-47% nanno, 3-5% rad, 1-4%  
 aniso min. 69-81cm: Missing. 81-231cm:  
 Dark brown ( $10 \text{ yr}^3/3$ ) to very dark grayish  
 brown ( $10 \text{ yr}^3/2$ ) rad rich clay; 65-72% clay,  
 27-30% rad, 1-4% aniso min (nanno trace).  
 231-365cm: Dark brown ( $7.5 \text{ yr}^3/2$ ) to ( $7.5 \text{ yr}^{3.5/2}$ )  
 rad bearing clay; 90-95% clay, 4-10%  
 rad; 1-5% aniso min (nanno trace). 365-531cm:  
 Dark brown ( $7.5 \text{ yr}^3/2$ ) to very dark gray  
 ( $5 \text{ yr}^{3.5/1.5}$ ) to dark reddish brown ( $5 \text{ yr}^{2.5/2}$ )  
 radiolarian clay; 55-73% clay, 25-44% rad, 1-2%  
 aniso min. 531-648cm: Dark reddish brown  
 ( $5 \text{ yr}^{2.5/2}$ ) to brown ( $10 \text{ yr}^{4.5/3}$ ) rad bearing  
 clay; 84-95% clay, 5-10% rad, 1-5% aniso min.



648-673cm: Dark brown ( $10 \text{ yr}^3/3$ ) to dark reddish  
 brown ( $5 \text{ yr}^{2.5/2}$ ) to brown ( $10 \text{ yr}^{4.5/3}$ ) clay  
 radiolarian ooze; 50-62% rad, 33-49% clay, 2-5%  
 aniso min. Slight to moderate mottling scattered  
 through the core. Light yellowish brown

(cont'd)

Logged by: Patterson, Ching & Chung

A-2  
GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. Midway  
KK72 PC 01 Sta. 3 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

(10 yr<sup>6</sup>/4), yellowish brown (10 yr<sup>5</sup>/4), dark  
grayish brown (10 yr<sup>4</sup>/2), dark brown  
(7.5 yr<sup>4</sup>/4) (7.5 yr<sup>3</sup>/2), black (10 yr<sup>2.5</sup>/1),  
reddish brown (5 yr<sup>5</sup>/3). Parallel layering  
at 453-455cm, brown (10 yr<sup>4</sup>/3) and 648-652cm.  
dark brown (10 yr<sup>3</sup>/3).

AGE: Undetermined  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

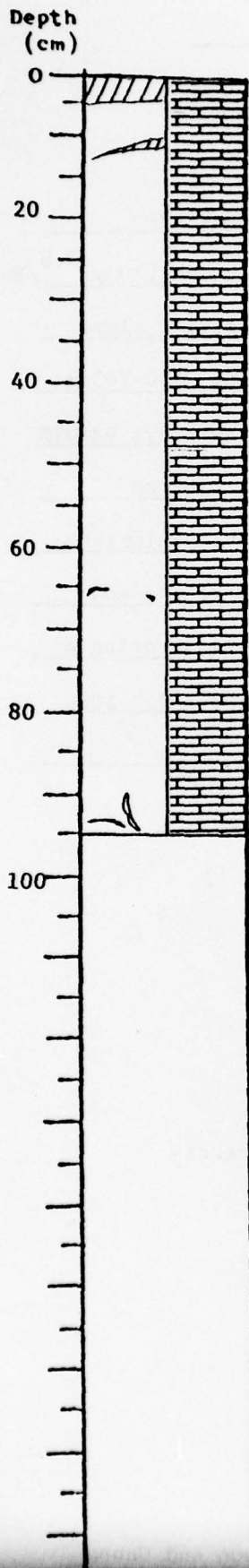


Logged by: Patterson, Ching & Chung



A-3

GENERAL SUMMARY FORM

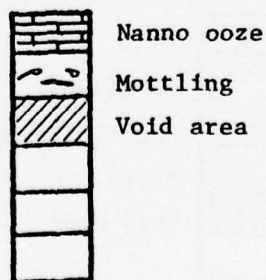


Core No. Midway  
KK72 TC 1 Sta. 3  
 Lat. 28°28.05'N  
 Location Long. 179°52.82'W

GENERAL MEGASCOPIC DESCRIPTION

0-95cm: Dark brown (10 yr <sup>4</sup>/3) diatom. foram.  
 and rad bearing clay-rich nanno ooze; 55%  
 nanno, 20% clay, 7% rad, 5% foram, 2% diatom,  
 10% aniso min (sponge trace). Very slight  
 mottles where indicated; light yellowish brown  
 (10 yr <sup>6</sup>/4). 0-5cm, 12-13cm: Void.

AGE: Undetermined



Logged by: Patterson

A-4

GENERAL SUMMARY FORM

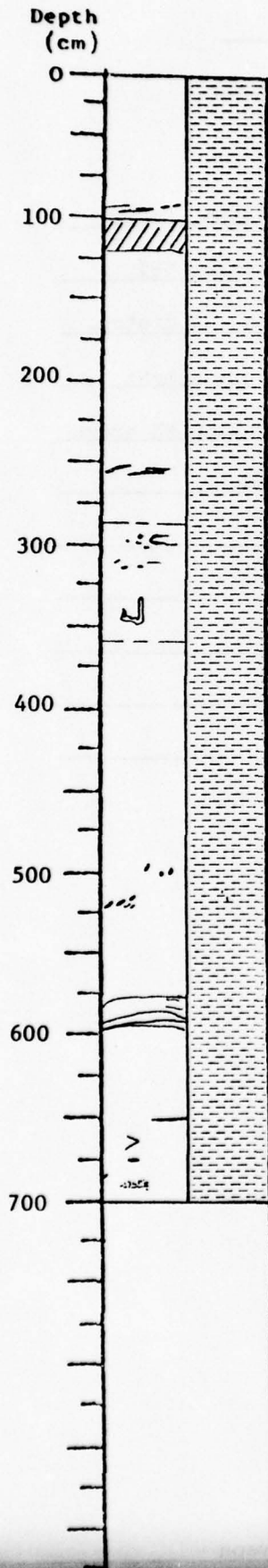
Midway

Core No. KK72 PCOD 02 Sta. 4

Lat. 29°59.08'N

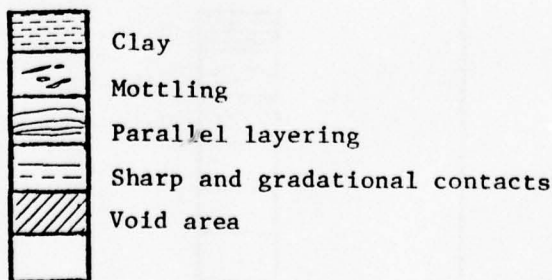
Location Long. 178°02.16'W

GENERAL MEGASCOPIC DESCRIPTION



0-550cm: Brown ( $10 \text{ yr}^4/3$ ) to dark brown  
 ( $10 \text{ yr}^3/3$ ) to very dark grayish brown ( $10 \text{ yr}^{3.5}/2.5$ )  
 to ( $7.5 \text{ yr}^{3.5}/2$ ) nanno and rad bearing clay;  
 90-97% clay, 3-8% rad, 1-3% nanno. 550-700cm:  
 Dark brown ( $7.5 \text{ yr}^3/2$ ) rad bearing clay; 93-97%  
 clay, 3-7% rad (nanno trace). Slight to  
 moderate mottling where indicated; yellowish  
 brown ( $10 \text{ yr}^5/4$ ), dark brown ( $10 \text{ yr}^4/4$ ) and  
 strong brown ( $10 \text{ yr}^5/6$ ). Parallel layering at  
 580-591cm depth; dark brown ( $10 \text{ yr}^3/3$ ). 100-  
 121cm: Void.

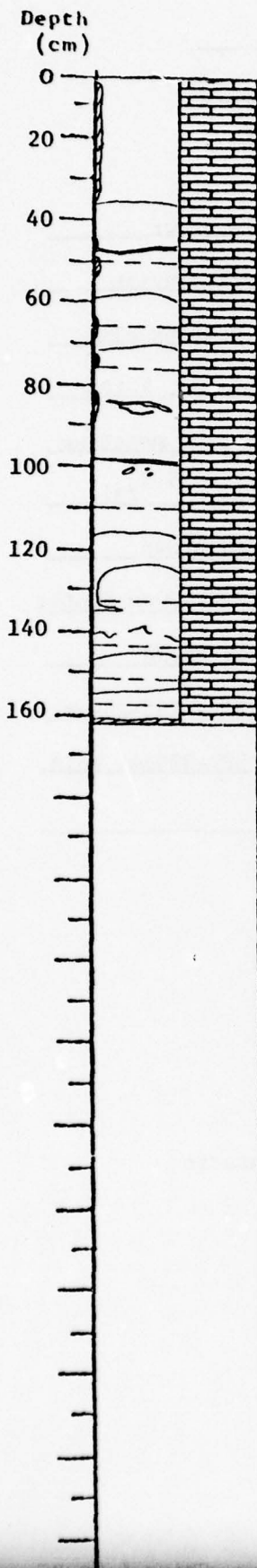
AGE: Undetermined



Logged by: Patterson and Chung

A-5

GENERAL SUMMARY FORM

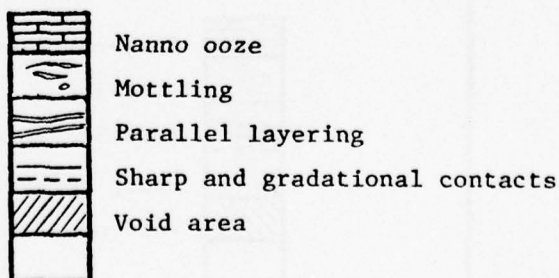


Core No. Midway  
KK72 PCOD 03 Sta. 18  
 Lat. 25°15.33'N  
 Location Long. 169°54.30'W

GENERAL MEGASCOPIC DESCRIPTION

0-162cm: White (10 yr<sup>8</sup>/2) to light gray  
 (10 yr<sup>7</sup>/2) to very pale brown (10 yr<sup>7</sup>/3) clay  
 bearing foram rich nanno ooze; 65-80% nanno,  
 10-15% foram, 2-8% clay. Very faint mottling  
 scattered through the core; white (10 yr<sup>8</sup>/2),  
 pale brown (10 yr<sup>7</sup>/3), light gray (10 yr<sup>7</sup>/2),  
 (10 yr<sup>8</sup>/3), (10 yr<sup>8</sup>/1). Parallel layering  
 at 47-48cm; white (10 yr<sup>8</sup>/2) and 98-98.5cm;  
 very pale brown (10 yr<sup>8</sup>/3). 0-36cm exhibits  
 graded bedding with black, white and brown  
 sand grains mixed in a lighter matrix. 115-  
 134cm: Black, white and brown sand grains in a  
 light matrix. 161-162cm: Void.

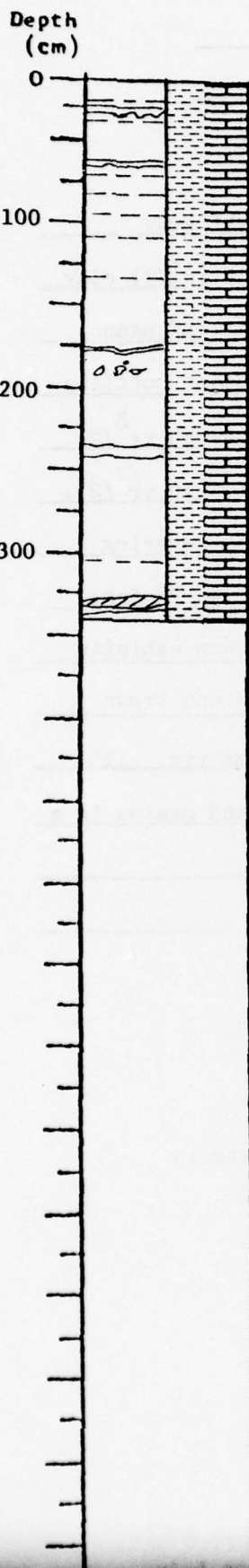
AGE: Pliocene(?)



Logged by: Patterson & Au

A-6

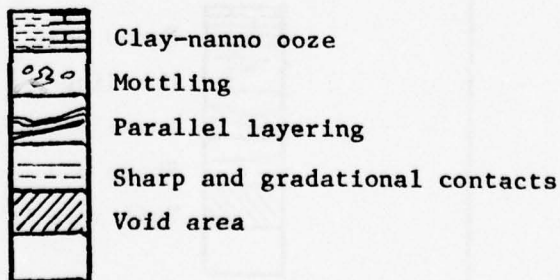
GENERAL SUMMARY FORM



Core No. Midway  
KK72 PCOD 04 Sta. 35  
 Lat. 24°11.48'N  
 Location Long. 166°16.57'W

GENERAL MEGASCOPIC DESCRIPTION

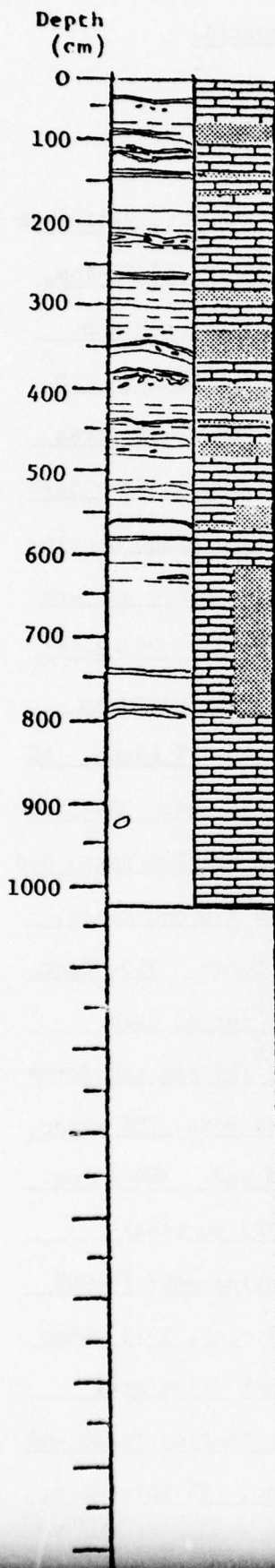
0-344cm: Brown (10 yr<sup>5</sup>/3) to pale brown  
 (10 yr<sup>6</sup>/3) to (10 yr<sup>5.5</sup>/3) to dark grayish  
 brown (10 yr<sup>4</sup>/2) sponge and rad bearing clay  
 nanno ooze; 45-62% nanno. 25-40% clay. 4-10%  
 rad, 2-4% sponge. Slight to moderate mottling  
 where indicated in core; brown (10 yr<sup>5.5</sup>/3).  
 pale brown (10 yr<sup>6</sup>/3) dark grayish brown  
 (10 yr<sup>4</sup>/2). Parallel layering at 24-29cm depth;  
 brown (10 yr<sup>5.5</sup>/3). 62-64cm: Pale brown  
 (10 yr<sup>6</sup>/3). 175-176cm: (10 yr<sup>6</sup>/3). 236-242cm:  
 Dark grayish brown (10 yr<sup>4</sup>/2). 329-333cm: Void.  
 AGE: Upper Miocene





A-7

GENERAL SUMMARY FORM



Core No. KK72 PC 01 Sta. 2  
 Lat. 20°22.46'S  
 Location Long. 171°05.55'E

GENERAL MEGASCOPIC DESCRIPTION

0-76cm: Dark yellowish brown ( $10 \text{ yr}^{4.5/4}$ )  
 sponge, rad, clay and foram bearing nannofossil  
 ooze; 70-80% nanno, 5-10% foram, 5-10% clay,  
 3-10% rad, 0-5% sponge (diatom trace). 76-95cm:  
 Very dark gray ( $10 \text{ yr}^3/1$ ) diatom, sponge, rad  
 and foram bearing clay and nanno rich ash; 50%  
 volcanic ash, 23% nanno, 10% clay, 7% foram, 5%  
 rad, 3% sponge, 2% diatom. 95-134cm: Light  
 olive brown ( $2.5 \text{ y}^5/3$ ) to dark grayish brown  
 ( $10 \text{ yr}^4/2.5$ ) sponge, diatom, rad, and foram  
 bearing clay rich nanno ooze; 75% nanno, 10%  
 clay, 5% foram, 5% rad, 3% diatom, 2% sponge.  
 134-180cm: Very dark grayish brown ( $2.5 \text{ y}^3/2$ )  
 rad and foram bearing ash, glass shard, and clay  
 rich nanno ooze; 55-60% nanno, 15-20% clay, 15%



Nanno ooze  
 Ash  
 Nanno, ash and glass shard ooze  
 Mottling  
 Parallel layering  
 Sharp and gradational contacts

volcanics, 5% foram, 5% rad. 180-225cm: Light  
 brownish gray ( $2.5 \text{ y}^6/3$ ) to yellowish brown  
 ( $10 \text{ yr}^5/4$ ) diatom, sponge, rad, foram and clay  
 bearing nanno ooze; 65-82% nanno, 5-10% clay,  
 3-10% foram, 5-8% rad, 2-4% sponge, 1-3% diatom.

(cont'd)

A-8

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PC 01 Sta. 2 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

225-283cm: Dark olive gray ( $5 y^3/2$ ) to yellowish brown ( $10 yr^{5.5}/4$ ) to brown ( $10 yr^4/3$ ) diatom, sponge, foram and rad bearing clay, ash and glass shard rich nanno ooze; 58-65% nanno, 10-15% clay, 10% volcanics, 6-8% rad, 2-5% foram, 2-3% diatom, 2-4% sponge. 283-297cm: Very dark gray ( $10 yr^3/1.5$ ) foram, clay and nanno bearing ash and glass shard ooze; 85% volcanic ash and glass, 7% nanno, 5% clay, 3% foram. 297-320cm: Brown ( $10 yr^5/3$ ) glass shard, rad and foram bearing clay rich nanno ooze; 70-77% nanno, 15% clay, 3-5% foram, 5% glass, 2-5% rad. 320-350cm: Dark olive gray ( $5 yr^3/2$ ) foram bearing nanno and clay rich ash; 60-65% volcanic ash and glass, 20% clay, 13-15% nanno, 2-5% foram. 350-380cm: Yellowish brown ( $10 yr^5/4$ ) to dark yellowish brown ( $10 yr^4/4$ ) rad and foram bearing clay rich nanno ooze; 75% nanno, 15% clay, 5% foram, 5% rad. 380-432cm: Dark olive gray ( $5 y^3/2$ ) to black ( $10 yr^2/1$ ) nanno and clay bearing ash; 80-90% volcanic ash and glass, 5-10% clay, 5-7% nanno (foram trace). 432-437cm: Dark olive gray ( $5 y^3/2$ ) diatom, rad and clay bearing foram and ash rich nanno ooze; 65% nanno, 15% volcanics,

(cont'd)

Logged by: Patterson

## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PC 01 Sta. 2 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION10% foram, 5% clay, 3% rad, 2% diatom. 437-457cm: Light brownish gray ( $2.5 \text{ yr}^{6.5/2}$ ) toolive ( $5 \text{ yr}^5/3$ ) sponge, diatom, clay and radbearing foram rich nanno ooze; 70-73% nanno,10-15% foram, 5-10% rad, 5% clay, 3% diatom,2% sponge. 457-471cm: Very dark gray ( $10 \text{ yr}^{3.5/1}$ )sponge, diatom, foram, clay bearing rad and nannorich ash; 50% volcanic ash and glass, 25% nanno,10% rad, 7% clay, 3% foram, 3% diatom, 2% sponge.471-532cm: Light yellowish brown ( $2.5 \text{ yr}^{6.5/4}$ ) tobrown ( $10 \text{ yr}^5/4$ ) sponge and rad bearing clay andforam rich nanno ooze; 60-65% nanno, 12-15%foram, 10-15% clay, 3% rad, 2% sponge, 0-5%opaque min (diatom trace). 532-561cm: Darkgrayish brown ( $10 \text{ yr}^4/2$ ) to very dark gray( $10 \text{ yr}^{3.5/1}$ ) sponge and foram bearingrad and clay rich nannofossil ash andglass shard ooze; 33-50% volcanics, 25-30% nanno, 15-20% clay, 10% rad, 2% sponge,2-5% foram (diatom trace). 561-567cm:Brown ( $10 \text{ yr}^{4.5/3}$ ) diatom, sponge and clay bearingrad rich nanno ooze; 77% nanno, 10% rad, 7% clay,3% sponge, 2% diatom (foram trace). 567-602cm:Brown ( $10 \text{ yr}^4/2.5$ ) to ( $10 \text{ yr}^5/3$ ) sponge, diatom,rad and clay bearing ash and glass shard rich  
(cont'd)Logged by: Patterson



A-10

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PC 01 Sta. 2 (cont'd)

Location \_\_\_\_\_

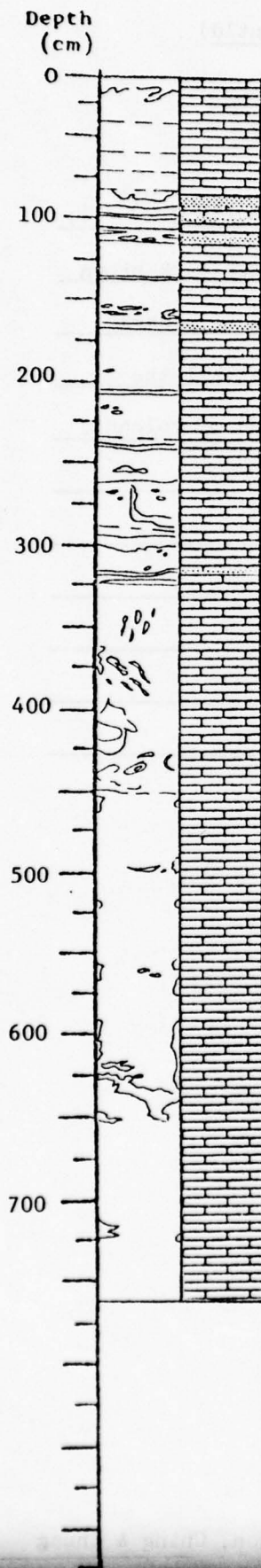
GENERAL MEGASCOPIC DESCRIPTION

nanno ooze; 60-65% nanno, 20% volcanics, 5-7%  
clay, 5-6% rad, 2% sponge, 1-2% diatom, 5%  
opaque min (foram trace). 602-768cm: Dark  
grayish brown ( $2.5 \text{ yr}^4/2$ ) to very dark grayish  
brown ( $2.5 \text{ yr}^3/2$ ) to dark olive gray ( $5 \text{ yr}^3/2$ )  
to very dark gray ( $10 \text{ yr}^3/1$ ) rad, foram and  
clay bearing nannofossil ash and glass shard  
ooze; 50-65% volcanics, 25-37% nanno, 5% clay,  
2-7% foram, 0-3% rad. 768-1020cm: Light yellow-  
ish brown ( $10 \text{ yr}^6/4$ ) rad and foram bearing clay  
rich nanno ooze; 63-72% nanno, 20-25% clay, 5-7%  
foram, 3-5% rad. Slight to moderate mottling  
scattered through the core; dark grayish brown  
( $2.5 \text{ yr}^4/2$ ), yellowish brown ( $10 \text{ yr}^5/4$ ), dk grayish brn  
( $10 \text{ yr}^4/2$ ), dark brown ( $10 \text{ yr}^4/3$ ), black  
( $10 \text{ yr}^{2.5}/1$ ), grayish brown ( $10 \text{ yr}^5/2$ ),  
pale brown ( $10 \text{ yr}^{6.5}/3$ ), very dark grayish  
brown ( $10 \text{ yr}^3/2$ ). Many of the darker  
colored mottles appear to have high con-  
centrations of ash in them. Parallel  
layering 131-132cm depth, very dark gray ( $2.5 \text{ yr}^3/1$ )  
ash; 153-154cm black ( $10 \text{ yr}^{2.5}/1$ ) ash; 348-349cm  
black ( $10 \text{ yr}^2/1$ ) ash; 437-438cm ( $10 \text{ yr}^{2.5}/1$ ) ash;  
560-561cm ( $10 \text{ yr}^{2.5}/1$ ); 616-618cm very dark gray  
( $10 \text{ yr}^3/1$ ). 593-594, 603-606cm: Void.

AGE: Quaternary (N22)

Logged by: Patterson

## GENERAL SUMMARY FORM

Core No. KK72 PC 002 Sta. 3Lat. 17°54.59'SLocation Long. 171°21.42'EGENERAL MEGASCOPIC DESCRIPTION

0-8cm: Very dark grayish brown ( $10 \text{ yr}^{3/2}$ ) clay and ash rich nannofossil ooze; 60% nanno, 10% clay, 15% volcanic ash and glass, 15% aniso min. 8-234cm: Yellowish brown ( $10 \text{ yr}^{4.5/4}$ ) to dark grayish brown ( $10 \text{ yr}^{4/2}$ ) to ( $10 \text{ yr}^{4.5/2}$ ) to black ( $10 \text{ yr}^{2.5/1}$ ) diatom, sponge, foram bearing rad and clay rich nannofossil ooze; 63-75% nanno, 10-15% clay, 10-15% rad, 2-7% foram, 0-6% sponge, 0-4% diatom. 234-325cm: Very dark grayish brown ( $10 \text{ yr}^{3/2}$ ), black ( $10 \text{ yr}^{2.5/1}$ ) to dark brown ( $10 \text{ yr}^{3/3}$ ), to very dark gray ( $10 \text{ yr}^{3/1}$ ) rad and foram bearing clay and ash rich nanno ooze; 55% nanno, 20% clay, 15% ash and glass shard, 5% rad, 5% foram. 325-764cm: Dark brown ( $10 \text{ yr}^{3/3}$ ) foram and rad bearing clay



Nanno ooze

Mottling

Parallel layering

Volcanic ash and glass

Sharp and gradational contacts

rich nanno ooze; 60-65% nanno, 10-15% clay, 5-10% rad, 10% aniso min (sponge trace). Slight to moderate mottling where indicated throughout core; very dark grayish brown ( $10 \text{ yr}^{3/2}$ ), black ( $10 \text{ yr}^{2.5/1}$ ), dark brown ( $10 \text{ yr}^{3/3}$ ) ( $10 \text{ yr}^{3/2.5}$ ).

(cont'd)

Logged by: Patterson, Ching & Chung

A-12

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PC 002 Sta. 3 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

Parallel layering 77-84cm, black ( $10 \text{ yr}^{2.5}/1$ );  
97-99cm, 105-111cm, 103-104cm very dark brown  
( $10 \text{ yr}^3/1$ ), 167-170cm, 303-305cm very dark  
grayish brown ( $10 \text{ yr}^3/2$ ). Almost all the  
mottling and layering is composed of volcanic  
ash and glass.

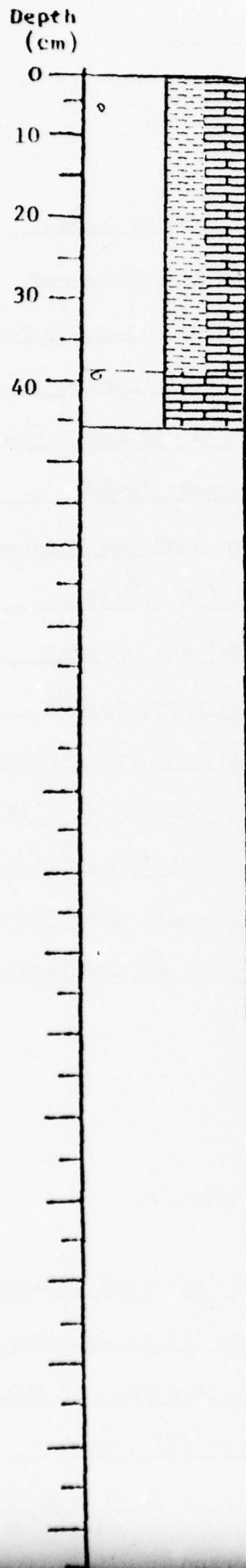
AGE: Quaternary

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Logged by: Patterson, Ching & Chung

A-13

GENERAL SUMMARY FORM



Core No. KK72 PC 001 Sta. 4

Lat. 15°34.72'S

Location Long. 174°10.18'E

GENERAL MEGASCOPIC DESCRIPTION

0-38cm: Very dark gray (10 yr<sup>3</sup>/1) rad and foram bearing clay nanno ooze; 50% nanno, 30% clay, 8% foram, 7% rad, 5% aniso min. 38-46cm:

Yellowish brown (10 yr<sup>5</sup>/4) rad bearing clay and foram rich nannofossil ooze; 65% nanno, 15% foram, 10% clay, 5% rad, 5% aniso min. Very slight mottling at 5 and 38cm depth; yellowish brown (10 yr<sup>5</sup>/4) and olive brown (2.5 yr<sup>4</sup>/4).

The first 38cm appears to have a heavy concentration of small Mn nodules in a sandy matrix.

AGE: Upper Pliocene-Lower Pleistocene (N21-N22)



Clay-nanno ooze

Nanno ooze

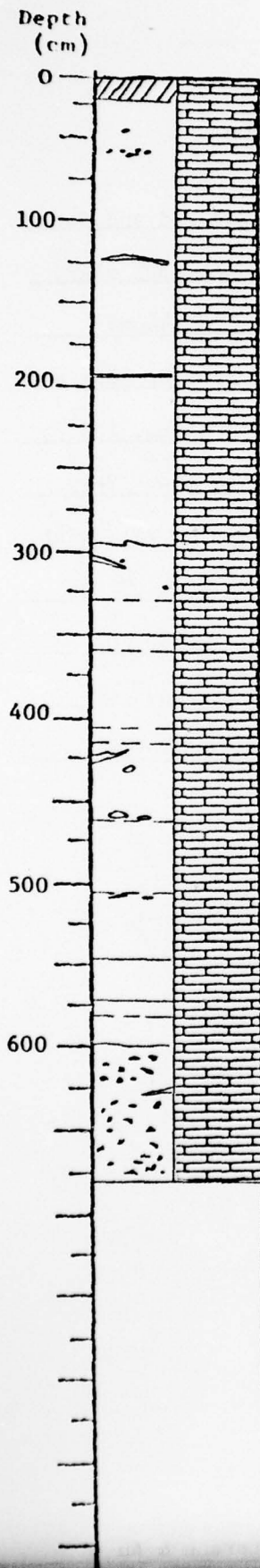
Mottling

Gradational contact

Logged by: Patterson & Au



## GENERAL SUMMARY FORM



Core No. KK72 PC 004 Sta. 5  
 Lat. 15°31.05'S  
 Location Long. 175°41.19'E

GENERAL MEGASCOPIC DESCRIPTION

0-350cm: Yellowish brown ( $10 \text{ yr}^{5.5}/4$ ) to brown ( $10 \text{ yr}^{5.5}/3$ ) sponge and rad bearing foram and clay rich nannofossil ooze; 60-70% nanno, 12-20% clay, 10-15% foram, 3-10% rad, 2-5% sponge.  
 350-460cm: Pale brown ( $10 \text{ yr}^6/3$ ) rad and foram bearing clay rich nannofossil ooze; 70-80% nanno, 10-15% clay, 1-5% foram, 3-4% rad (sponge trace).  
 460-575cm: Pale brown ( $10 \text{ yr}^6/3$ ) to light yellowish brown ( $10 \text{ yr}^6/4$ ) rad bearing foram and clay rich nannofossil ooze; 55-70% nanno, 15-20% clay, 10-20% nanno, 4% rad (sponge trace).  
 575-680cm: Yellowish brown ( $10 \text{ yr}^{5.5}/4$ ) to pale brown ( $10 \text{ yr}^6/3.5$ ) to brown ( $10 \text{ yr}^5/3.5$ ) rad bearing clay and foram rich nanno ooze; 50-55% nanno, 25% foram, 15-20% clay, 4% rad (sponge



Nanno ooze  
 Mottling  
 Parallel layering  
 Rock fragments  
 Sharp and gradational contacts  
 Void areas

trace). Slight mottling where indicated through the core; very dark gray ( $10 \text{ yr}^3/1$ ) to brownish yellow ( $10 \text{ yr}^6/3.5$ ). Parallel layering 192-192.5 cm depth; very pale brown ( $10 \text{ yr}^7/3$ ). Core interval from 350-412cm is very sandy with black  
 (cont'd)

A-15

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PC 004 Sta. 5 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

ash specks throughout. The core in general  
below 229cm depth is characterized by a sandy  
lithology ranging from very fine to pebbly,  
with larger rock and corraline fragments common.

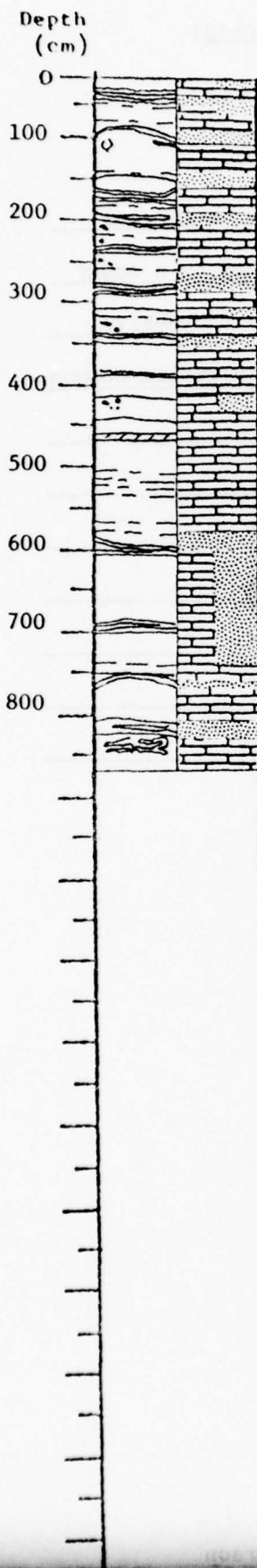
AGE: Quaternary (N23)

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\_\_\_\_\_  
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Logged by: Patterson

## GENERAL SUMMARY FORM

Core No. KK72 PC 006 Sta. 7Lat. 16° 8.88' SLocation Long. 175° 09.61' WGENERAL MEGASCOPIC DESCRIPTION

0-19cm: Gray (10YR<sup>5</sup>/1.5) to brown (10YR<sup>5.5</sup>/3)  
to yellowish brown (10YR<sup>5.5</sup>/4) rad, clay and foram  
bearing nanno-glass shard ooze; 38-43% volcanic  
glass, 35-40% nanno, 8-10% foram, 5-10% clay, 5% rad,  
2% aniso min. 19-30cm: Dark brown (10YR<sup>3</sup>/3, <sup>4</sup>/3)  
Diatom, foram, sponge, bearing clay and rad rich nanno  
ooze; 68% nanno, 15% rad, 10% clay, 3% sponge,  
2% foram. 30-53cm: Dark brown (10YR<sup>3</sup>/3) to brown  
(10YR<sup>4</sup>/3) diatom, sponge, rad, foram, and clay bearing  
nanno-glass shard ooze; 43% volcanic glass, 35% nanno,  
7% clay, 5% foram, 5% rad. 53-73cm: Brown (10YR<sup>4</sup>/3)  
sponge and rad bearing foram and clay rich nanno ooze;  
68% nanno, 12% clay, 10% foram, 7% rad, 2% sponge  
(diatom trace). 73-109cm: Dark grayish brown  
(10YR<sup>4</sup>/2) to brown (10YR<sup>4</sup>/3) to dark yellowish  
brown (10YR<sup>4</sup>/4) sponge, glass shard, rad and foram  
bearing clay rich nanno ooze; 63-70% nanno, 10%  
10% clay, 5-10% foram, 7% rad, 5-7% volcanic  
glass shard, 2% sponge (diatom trace).



Nanno-glass shard ooze

Nanno ooze

Ash-glass shards

Mottling

Parallel layering

Pebbles

(cont'd)

Logged by: Patterson



## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PC 006 Sta. 7 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

190-197cm: Brown ( $10 \text{ yr}^5/3$ ) to ( $10 \text{ yr}^4/3$ ) to gray ( $10 \text{ yr}^6/1.5$ ) rad, foram, and clay bearing nanno rich glass shard ooze; 60-75% volcanic glass shard; 15-20% nanno, 5-10% clay, 2-5% foram, 3-4% rad (sponge trace). 197-262cm: Yellowish brown ( $10 \text{ yr}^5/5$ ) to brown ( $10 \text{ yr}^4/3$ ) to dark brown ( $10 \text{ yr}^3/3$ ) rad and foram bearing clay and glass shard rich nanno ooze; 58-65% nanno, 15-17% volcanic glass shard, 10-15% clay, 5-7% foram, 3-4% rad (sponge trace). 262-282cm: Brown ( $10 \text{ yr}^5/3$ ) foram, nanno and clay bearing volcanic glass shard ooze; 83% volcanics, 7% clay, 5% nanno, 5% foram. 282-303cm: Dark brown ( $10 \text{ yr}^3/3$ ) rad, glass shard and foram bearing clay rich nanno ooze; 73-80% nanno, 10% clay, 3-7% foram, 5% glass, 2-4% rad (sponge trace). 303-315cm: Dark grayish brown ( $10 \text{ yr}^4/2$ ) rad, clay and foram bearing nanno-glass shard ooze; 45-58% volcanics, 28-45% nanno, 3-7% foram, 5% clay, 2% sponge. 315-334cm: Dark brown ( $10 \text{ yr}^3/3$ ) rad foram, clay and glass shard rich nanno ooze; 60% nanno, 15% volcanic glass, 13% clay, 10% foram, 2% rad. 334-345cm: Brown ( $10 \text{ yr}^5/3$ ) to grayish brown ( $10 \text{ yr}^5/2$ ) rad, foram, and clay

(cont'd)

Logged by: Patterson

A-18

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PC 006 Sta. 7 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

bearing nanno rich glass shard ooze; 68% volcanic  
glass, 22% nanno, 5% clay, 3% foram, 2% rad.

345-429cm: Brown (10 yr<sup>4</sup>/3) to dark grayish

brown (10 yr<sup>4</sup>/2) to yellowish brown (10 yr<sup>5</sup>/4)

to dark brown (10 yr<sup>3</sup>/3) rad, foram, and clay

bearing glass shard rich nanno ooze; 60-70%

nanno, 10-15% volcanic glass, 5-10% clay, 3-10%

foram, 2-5% rad. 429-440cm: Brown (10 yr<sup>5</sup>/3)

rad, foram and clay bearing nanno-glass shard

ooze; 47% volcanic glass, 43% nanno, 5% clay,

3% foram, 2% rad. 440-583cm: Dark brown

(10 yr<sup>3</sup>/3) to dark grayish brown (10 yr<sup>4</sup>/2)

foram, rad and clay bearing nanno ooze; 75-80%

nanno, 5-10% clay, 5-10% rad, 5-10% foram (glass

trace). 583-595cm: Grayish brown (10 yr<sup>5</sup>/2)

foram, clay and nanno bearing volcanic

glass shard ooze; 85% glass, 7% nanno,

5% clay, 3% foram. 595-719cm: Dark

grayish brown (10 yr<sup>4.5</sup>/2) to brown

(10 yr<sup>5</sup>/3) foram, rad and clay bearing

nanno-glass shard ooze; 45-55% volcanic glass,

25-43% nanno, 5-10% clay, 5% rad, 2-5% foram.

719-821cm: Dark yellowish brown (10 yr<sup>4.5</sup>/4) to

dark brown (10 yr<sup>3</sup>/3) to brown (10 yr<sup>4.5</sup>/3) to

very dark grayish brown (2.5 yr<sup>3.5</sup>/2) sponge,

(cont'd)

## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PC 006 Sta. 7 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

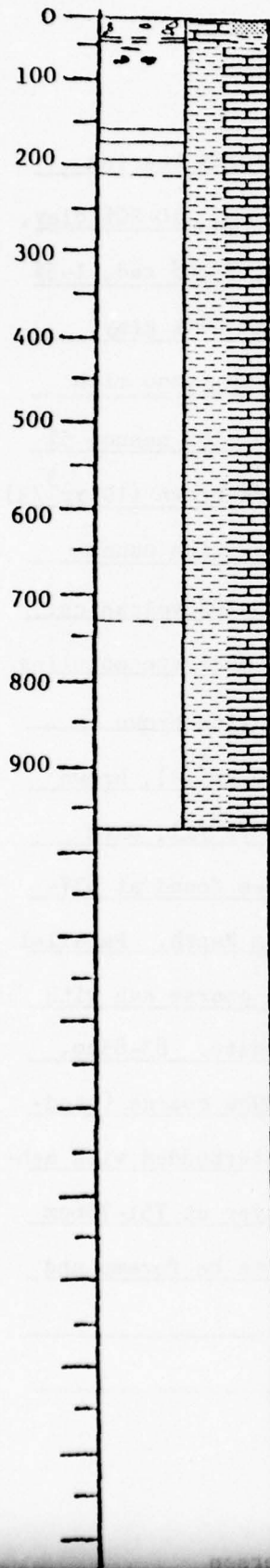
diatom, rad, glass shard, and foram bearing  
clay rich nanno ooze; 48-68% nanno, 10-20% clay,  
2-10% foram, 0-10% glass shard, 7-10% rad, 1-3%  
diatom, 1-4% sponge. 821-832cm: Dark gray  
(10 yr<sup>4</sup>/1) foram and clay bearing nanno rich  
volcanic ash; 80% ash and glass, 10% nanno, 5%  
foram, 5% clay. 832-866cm: Dark brown (10 yr<sup>3</sup>/3)  
foram, rad, and ash bearing clay rich nanno  
ooze; 72-75% nanno, 10% clay, 5-10% volcanics.  
5% rad, 3-5% foram. Slight to moderate mottling  
scattered through the core; grayish brown  
(10 yr<sup>4</sup>/2), yellowish brown (10 yr<sup>5</sup>/4), brown  
(10 yr<sup>4</sup>/3), very dark gray (10 yr<sup>3</sup>/1), dark  
brown (10 yr<sup>3</sup>/3). Small pebbles found at 677-  
678cm, 257-262cm, and 313-315cm depth. Parallel  
layer at 51-52cm depth; coarse ash with  
forams-- possible turbidite. 83-85cm,  
fine ash layer 137-139cm coarse (sand-  
silt sized) material interbedded with ash-  
possible turbidite. Layer at 751-756cm  
depth macroscopically appears to be forams and  
ash.

AGE: Quaternary (N23)

A-20

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PC 007 Sta. 8

Lat. 18°00.28'S

Location Long. 170°55.41'W

GENERAL MEGASCOPIC DESCRIPTION

0-40cm: Dark brown ( $10 \text{ yr}^3/3$ ) rad bearing clay  
rich nannofossil ash ooze; 50% ash, 35% nanno,  
10% clay, 5% rad. 40-45cm: Dark brown  
( $10 \text{ yr}^3/3.5$ ) nanno clay; 60% clay, 40% nanno.  
45-976cm: Foram bearing clay nanno ooze; 50-65%  
nanno, 25-40% clay, 5% foram. Some moderate  
mottling concentrated in the top 51cm of the  
core; very dark gray ( $10 \text{ yr}^3/1$ ) and very dark  
grayish brown ( $10 \text{ yr}^3/2$ ). Parallel layering  
157-161cm depth; dark brown ( $10 \text{ yr}^3/3$ ). 62-  
64cm: 2 Mn nodules 1.5cm diameter.

AGE: Undetermined



Nannofossil-ash ooze

Nanno-clay

Clay-nanno ooze

Mottling

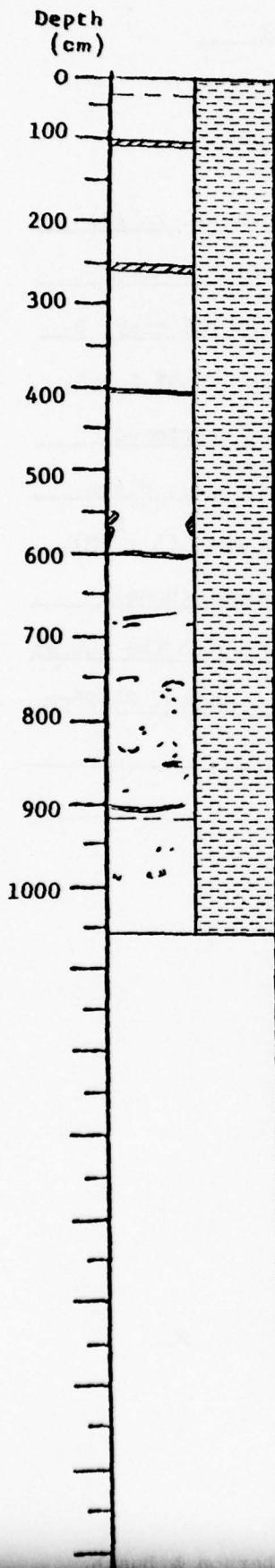
Parallel layering

Sharp and gradational contacts



A-21

GENERAL SUMMARY FORM

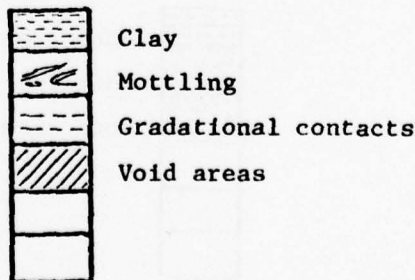


Core No. KK72 PC 008 Sta. 10  
 Lat. 13°18.97'S  
 Location Long. 102°6.43'W

GENERAL MEGASCOPIC DESCRIPTION

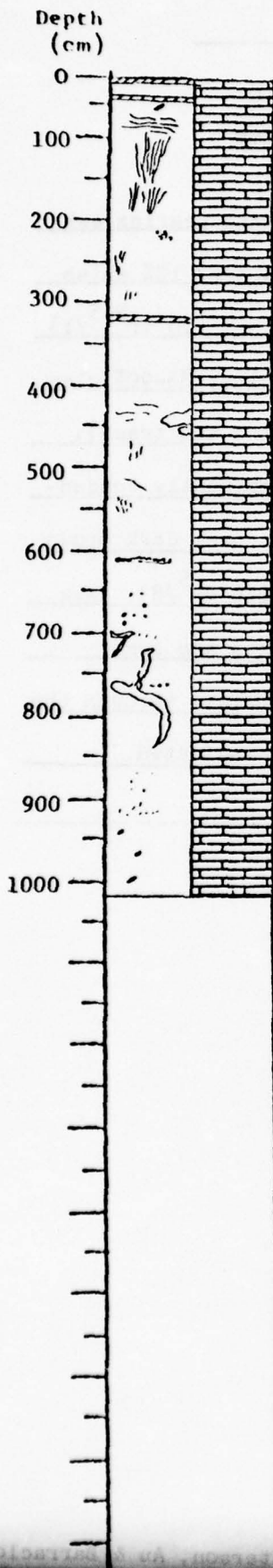
0-106cm: Black ( $10 \text{ yr}^{2.5}/1$ ) nanno bearing ash  
rich clay: 70-75% clay, 10-15% ash, 10% aniso  
min, 5% foram. 106-1052cm: Black ( $10 \text{ yr}^{2.5}/1$ )  
to very dark gray ( $10 \text{ yr}^3/1$ ) clay: 83-90% clay,  
10% aniso min (foram, nanno, and ash trace).  
Slight to heavy mottling predominantly concen-  
trated near the bottom of the core; dark brown  
( $7.5 \text{ yr}^3/2$ ), yellowish brown ( $10 \text{ yr}^5/8$ ), dark  
grayish brown ( $10 \text{ yr}^4/2$ ). There are some  
unidentified solid flakes dispersed through the  
first 34cm. Void areas where indicated.

AGE: Quaternary(?)



A-22

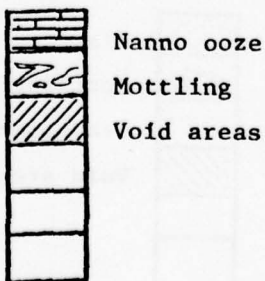
GENERAL SUMMARY FORM



Core No. KK72 PCOD 009 Sta. 12  
 Lat. 04°10.89'S  
 Location Long. 81°28.43'W

GENERAL MEGASCOPIIC DESCRIPTION

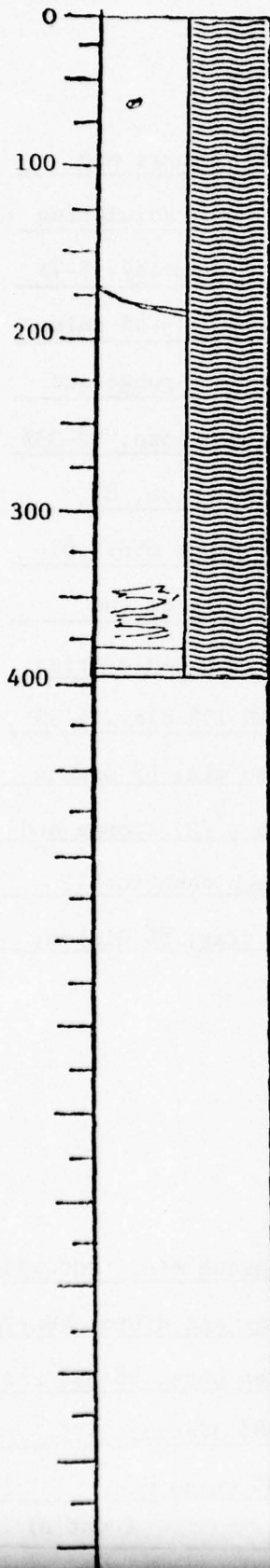
0-1018cm: Very dark grayish brown (10 yr<sup>3</sup>/2)  
foram, sponge, diatom, rad and clay bearing  
nannofossil ooze; 60-80% nanno, 5-10% clay, 5-  
10% rad, 2-6% diatom, 1-4% sponge, 0-5% foram.  
Very slight to moderate mottling scattered  
throughout the core; black (5 y<sup>2.5</sup>/2), olive  
(5 y<sup>4</sup>/3), white (5 y<sup>8</sup>/2), olive gray (5 y<sup>4</sup>/2).  
There are what appear to be animal tunnels  
through the core at an angle of 45° to the top at  
958cm, 970cm, and 1000cm depth. 0-3cm, 24-26cm,  
322-324cm: Void.  
AGE: Quaternary



A-23

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PCOD 10 Sta. 14

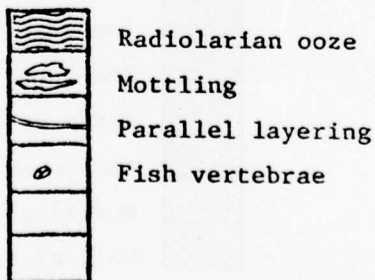
Lat. 04°58.92'S

Location Long. 81°35.68'W

GENERAL MEGASCOPIC DESCRIPTION

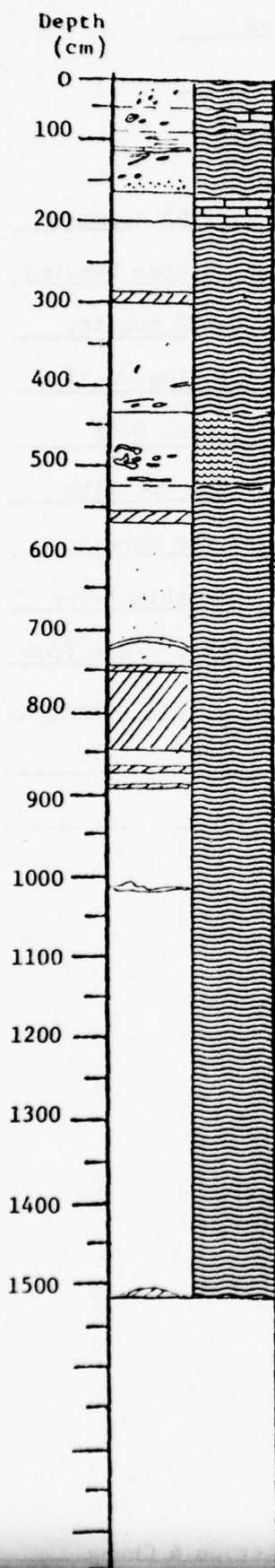
0-395cm: Very dark gray ( $5 y^{3.5}/1.5$ ) sponge, foram, clay, nanno, quartz, and diatom bearing radiolarian ooze; 50-60% rad, 5-10% quartz, 6-10% diatom, 5-10% nanno, 5-10% clay, 2-7% foram, 0-5% sponge, 5-10% aniso min, 0-5% opaque min. Slight to very slight mottling concentrated near the bottom of the core; black ( $5 y^{2.5}/2, 2.5/1$ ). One thin layer with an angle of about 30° to the surface from 168-180cm; olive gray ( $5 y^4/2$ ). Fish vertebrae found at 59 cm depth.

AGE: Quaternary



Logged by: Patterson & Chung

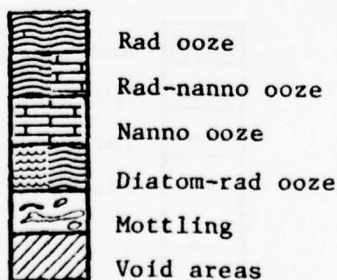
## GENERAL SUMMARY FORM



Core No. KK72 PCOD 11 Sta. 15  
 Lat. 05°41.07'S  
 Location Long. 82°20.89'W

## GENERAL MEGASCOPIC DESCRIPTION

0-50cm: Dark olive gray ( $5 y^{3/2}$ ) sponge and diatom bearing clay and nanno rich radiolarian ooze; 54-55% rad, 14-19% nanno, 10% clay, 5-7% diatom, 4-7% sponge, 4% opaque min, 3-4% aniso min. 50-87cm: Olive gray ( $5 y^{4/2}$ ) sponge and diatom bearing clay rich rad-nanno ooze; 32-33% nanno, 25% rad, 10-15% clay, 9% diatom, 8% sponge, 5-8% aniso min, 2-11% opaque min. 87-157cm: Dark olive gray ( $5 y^{3/2}$ ) diatom and sponge bearing clay and nanno rich radiolarian ooze; 41-57% rad, 19% nanno, 10-15% clay, 6-9% sponge, 1-6% diatom, 3-8% aniso min, 5% opaque min. 157-200cm: Olive gray ( $5 y^{4/2}$ ) sponge and diatom bearing clay and rad rich nannofossil ooze; 40% nanno, 25% rad, 10% clay, 8% diatom,



2% sponge, 8% aniso min, 7% opaque min. 200-435cm: Dark olive gray ( $5 y^{3/2}$ ) sponge and diatom bearing clay and nanno rich radiolarian ooze; 48-55% rad, 17-19% nanno, 10-15% clay, 3-8% diatom, 2-7% sponge, 3-11% opaque min, 2-5% aniso min.

Logged by: Patterson

(cont'd)



**O**

**Location** \_\_\_\_\_

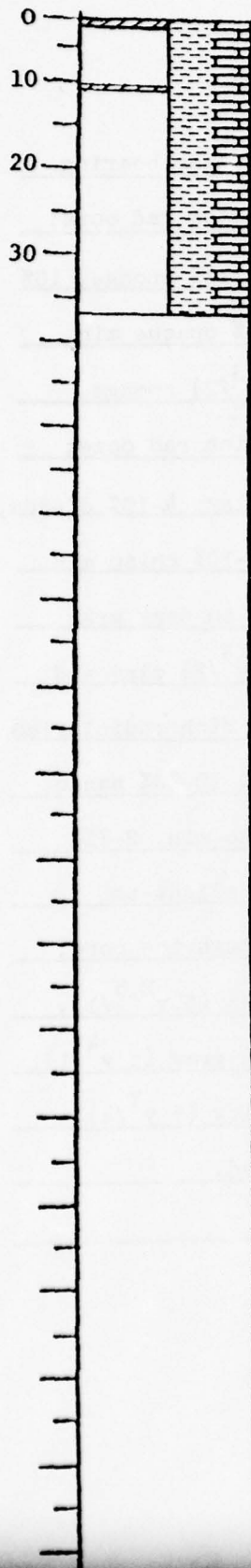
435-526cm: Olive gray ( $5 y^4/2$ ) foram bearing  
clay, sponge, and nanno rich diatom-rad ooze;  
31% rad, 28% diatom, 14% nanno, 11% sponge, 10%  
clay, 2% foram, 3% aniso min, 1% opaque min.  
526-716cm: Dark olive gray ( $5 y^3/2$ ) sponge,  
diatom bearing clay and nanno rich rad ooze;  
47-56% rad, 15-18% nanno, 10% clay, 4-10% diatom,  
1-7% sponge, 6-9% opaque min, 3-10% aniso min.  
716-1523cm: Olive gray ( $5 y^4/2$ ) to dark gray  
( $5 y^4/1$ ) to dark olive gray ( $5 y^3/2$ ) clay and  
sponge bearing nanno and diatom rich radiolarian  
ooze; 32-43% rad, 20-28% diatom, 10-20% nanno,  
4-10% sponge, 5% clay, 3-8% aniso min, 2-7%  
opaque min (foram trace). Very slight to  
moderate mottling scattered through the core;

light gray ( $5 y^{7/2}$ ), black ( $5 y^{2.5/1}$ ),  
olive gray ( $5 y^{4/2}$ ), dark gray ( $5 y^{4/1}$ ),  
olive ( $5 y^{4/3}$ ), pale yellow ( $5 y^{7/4}$ ).  
Void areas where indicated.  
AGE: Quaternary.

A-26

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PCOD 12 Sta. 17

Lat. 06°52.30'S

Location Long. 81°31.84'W

GENERAL MEGASCOPIC DESCRIPTION

0-37cm: Very dark gray (5 y<sup>3</sup>/1) diatom and  
foram bearing rad rich clay nanno ooze; 35%  
nanno, 25% clay, 10-12% rad, 5% foram, 2-3%  
diatom, 15% aniso min, 5-8% opaque min (sponge  
trace). The actual depth of this core is  
unknown. The sediment was found at 150cm from  
the bottom of the core.

AGE: Undetermined

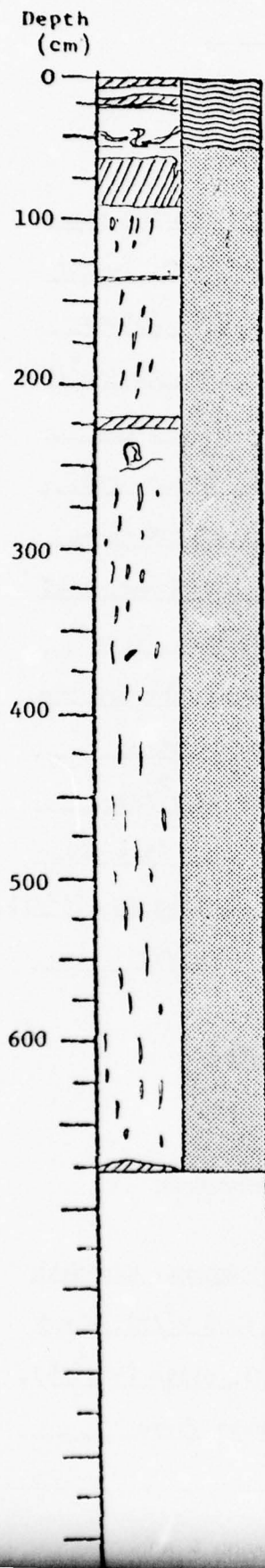


Clay-nanno ooze

Void areas

A-27

## GENERAL SUMMARY FORM



Core No. KK72 PCOD 13 Sta. 20  
 Lat. 17°52.90'S  
 Location Long. 73°04.18'W

## GENERAL MEGASCOPIC DESCRIPTION

0-53cm: Dark gray ( $10 \text{ yr}^{4.5}/1$ ) to ( $10 \text{ yr}^4/1$ )  
 sponge and foram bearing clay, nanno, and glass  
 shard rich radiolarian ooze; 35-38% rad, 10-18%  
 volcanic glass, 10% nanno, 10% clay, 5% foram,  
 2% sponge, 10-15% aniso min, 5% opaque min.  
 53-225cm: Dark gray ( $10 \text{ yr}^4/1$ ) diatom, foram,  
 and clay bearing nanno and rad rich volcanic  
 ash; 31-50% volcanic ash, 15-20% rad, 10% nanno,  
 5% clay, 5-6% diatom, 3-5% foram, 15-17% aniso  
 min, 5% opaque. 225-678cm: Dark gray ( $10 \text{ yr}^4/1$ )  
 diatom, rad, foram, clay and nanno bearing  
 volcanic ash; 42-55% volcanic ash, 7-10% nanno,  
 5-8% clay, 3-5% foram, 3% rad, 2% diatom, 15-17%  
 aniso min, 5% opaque min. Very slight to heavy  
 mottling concentrated near the top of the core

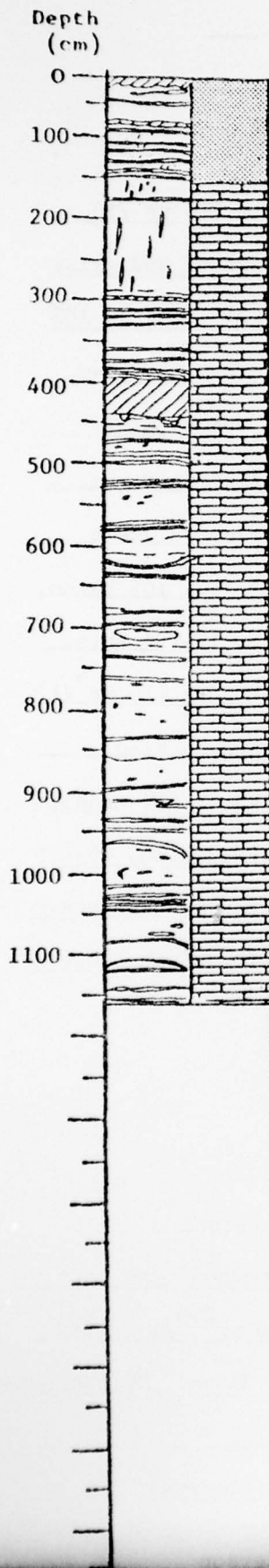
|  |                               |
|--|-------------------------------|
|  | Radiolarian ooze              |
|  | Ash                           |
|  | Mottling                      |
|  | Pebble                        |
|  | Void areas                    |
|  | Sharp and gradational contact |

with faint black streaking throughout the core;  
 dark gray ( $10 \text{ yr}^4/1$ ), black ( $10 \text{ yr}^{2.5}/1$ ), gray  
 ( $10 \text{ yr}^{5.5}/1$ ). Pebble found at 368cm. Void areas  
 where indicated.

AGE: Upper Pliocene-Lower Pleistocene

Logged by: Patterson

## GENERAL SUMMARY FORM

Depth  
(cm)Core No. KK72 PCOD 15 Sta. 22Lat. 19°01.35'SLocation Long. 72°48.53'WGENERAL MEGASCOPIC DESCRIPTION

0-150cm: Dark gray ( $5 y^{4.5}/1$ ) rad bearing nanno rich ash and glass shard ooze; 50% ash, 10-15% nanno, 0-5% rad, 40% aniso min. 150-1159cm: Dark gray ( $5 y^{4.5}/1$ ) to grayish brown ( $2.5 y^{5/2}$ ) to gray ( $5 y^5/1$ ) to olive ( $5 y^5/3$ ) to light brownish gray ( $2.5 y^6/2$ ) sponge, diatom, rad, clay and ash bearing nanno ooze; 45-70% nanno. 6-13% volcanic ash, 2-10% clay, 3-10% rad, 1-4% diatom, 1-4% sponge, 8-20% aniso min. Very slight to slight mottling scattered through the core with a few moderate to heavy mottles; greenish gray ( $5 gy^{4.5}/1$ ), black ( $5 y^2/2$ ), grayish brown ( $5 y^{2.5}/2$ ), olive gray ( $5 y^5/2$ ), gray ( $5 y^5/1$ ), dark gray ( $2.5 y^4/0$ ) and ( $5 y^{4.5}/1$ ), olive ( $5 y^5/4$ ), very dark gray ( $5 y^3/1$ ).



Ash and glass shard ooze

Nanno ooze

Mottling

Parallel layering

Sharp and gradational contacts

Void areas

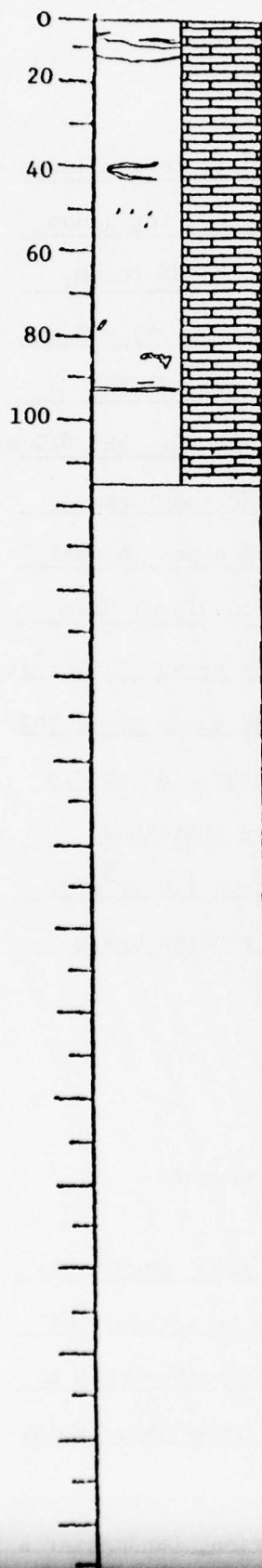
Parallel layering abundant throughout, greenish gray ( $5 gy^4/1$ ), grayish brown ( $2.5 y^5/2$ ), black ( $5 y^{2.5}/2$ ), olive gray ( $5 y^5/2$ ), olive ( $5 y^5/4$ ), dark gray ( $2.5 y^4/0$ ). Void areas where indicated.

AGE: Undetermined

Logged by: Patterson & Au



## GENERAL SUMMARY FORM

Depth  
(cm)Core No. KK72 PCOD 16 Sta. 24Lat. 19°2.85'SLocation Long. 71°33.40'WGENERAL MEGASCOPIC DESCRIPTION

0-7cm: Dark grayish brown ( $2.5 y^4/2$ ) rad and clay bearing ash rich nanno ooze; 40% nanno, 25% volcanic glass, 10% clay, 4% rad, 1% diatom, 25% aniso min. 7-11<sup>4</sup>cm: Olive ( $5 y^5/3$ ) to olive gray ( $5 y^4/2$ ) rad and clay bearing ash rich nanno ooze; 65-70% nanno, 10-13% volcanic ash and glass, 5% clay, 3-5% rad, 7-15% aniso min (diatom trace). Slight to moderate mottling scattered throughout the core; grayish brown ( $2.5 y^5/2$ ), very dark gray ( $2.5 y^3/0$ ), light olive gray ( $5 y^6/2$ ). Parallel layering at 91-92cm, greenish-gray ( $5 gy^5/1$ ).

AGE: Quaternary(?)

Nanno ooze

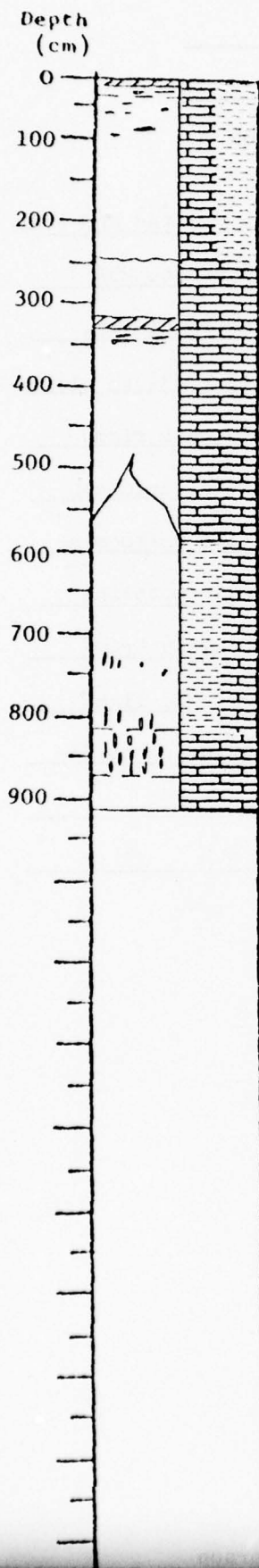
Mottling

Parallel layering

Sharp contact

Logged by: Patterson

## GENERAL SUMMARY FORM



Core No. KK72 PCOD 17 Sta. 25  
 Lat. 17°59.47'S  
 Location Long. 95°14.01'W

## GENERAL MEGASCOPIC DESCRIPTION

0-245cm: Dark brown ( $7.5 \text{ yr}^3/2$ ) to dark reddish brown ( $5 \text{ yr}^{2.5}/2$ ) rad and foram bearing nanno clay; 45-50% clay, 35-45% nanno, 5-8% foram, 3-8% rad. 245-525cm: Brown ( $7.5 \text{ yr}^4/4$ ) rad and foram bearing clay rich nanno ooze; 73-78% nanno, 15-20% clay, 5% foram, 2% rad. 525-810cm: Dark reddish brown ( $5 \text{ yr}^3/2$ ) rad and foram bearing clay nanno ooze; 48-50% nanno, 40-45% clay, 3-5% foram, 0-2% rad. 810-915cm: Dark reddish brown ( $5 \text{ yr}^3/4$ ) to dark brown ( $7.5 \text{ yr}^4/4$ ) rad and foram bearing clay rich nanno ooze; 78% nanno, 15% clay, 5% foram, 2% rad. Slight to moderately heavy mottling where indicated through the core; yellowish brown ( $10 \text{ yr}^5/6$ ), reddish brown ( $5 \text{ yr}^3/2$ ), dark reddish brown

|  |                                |
|--|--------------------------------|
|  | Nanno-clay                     |
|  | Nanno ooze                     |
|  | Clay-nanno ooze                |
|  | Mottling                       |
|  | Sharp and gradational contacts |
|  | Void areas                     |

( $5 \text{ yr}^3/4$ ), dark brown ( $7.5 \text{ yr}^3/2$ ). Angularity of contact at 500cm appears to be a result of flowage during coring operation rather than a stratigraphic feature. 0-6cm, 319-334cm: Void.

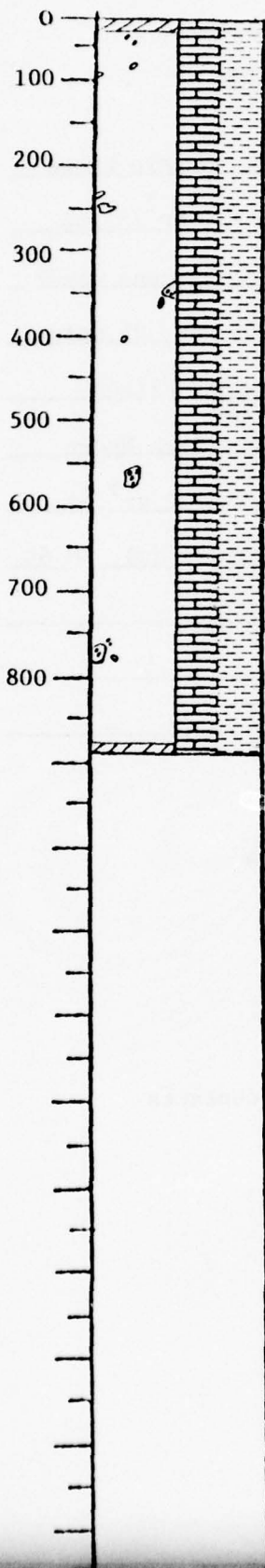
AGE: Miocene(?)

Logged by: Patterson, Landmesser & Ching

A-31

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PCOD 18 Sta. 26

Lat. 18°0.08'S

Location Long. 99°47.31'W

GENERAL MEGASCOPIC DESCRIPTION

0-886cm: Very dark gray (10 yr<sup>3</sup>/1.5) radiolarian  
rich nannofossil clay; 47-70% clay, 25-49% nanno,  
10-16% rad (foram and aniso min traces). Slight  
to moderate mottling scattered through the core;  
yellowish brown (10 yr<sup>5</sup>/6), black (10 yr<sup>2.5</sup>/1),  
dark yellowish brown (10 yr<sup>4</sup>/4), brownish  
yellow (10 yr<sup>6</sup>/6), strong brown (7.5 yr<sup>5</sup>/6).

The mottles appear to be nanno-clay with  
almost no trace of rads. Mottled areas appear  
partially lithified. 0-12cm, 881-886cm: Void.

AGE: Undetermined



Nanno-clay

Mottling

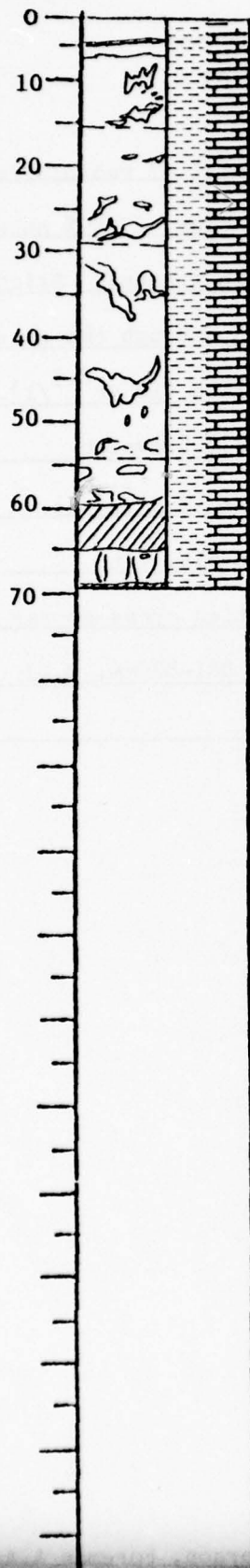
Void areas

Logged by: Patterson, Foreman & Au

A-32

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 02 Sta. 26  
 Lat. 18°00.01'S  
 Location Long. 99°47.64'W

GENERAL MEGASCOPIC DESCRIPTION

0-69cm: Dark brown ( $7.5 \text{ yr}^3/2$ ) to pale brown  
 ( $10 \text{ yr}^6/3$ ) to very pale brown ( $10 \text{ yr}^7/3$ ) to  
 brown ( $10 \text{ yr}^5/3$ ) rad bearing clay-nanno ooze:  
 50-61% nanno, 32-40% clay, 5-8% rad, 2% aniso  
 min (foram trace). Slight to very slight  
 mottling throughout core; colors dark brown  
 ( $7.5 \text{ yr}^3/2$ ), brown ( $10 \text{ yr}^4/3$ ) to ( $10 \text{ yr}^5/3$ ),  
 pale brown ( $10 \text{ yr}^6/3$ ), white ( $10 \text{ yr}^8/2$ ). 58-65  
 and 68-69cm: Void.

AGE: Upper Miocene (N 18)

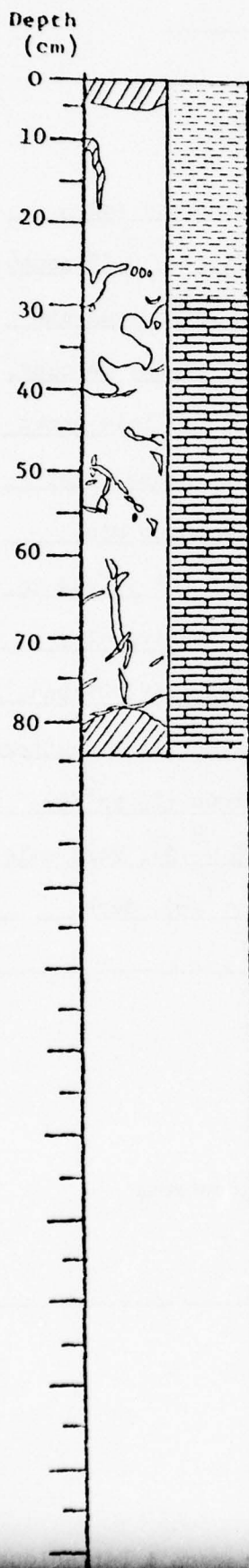


Clay-nanno ooze  
 Mottling  
 Sharp and gradational contacts  
 Void areas

Logged by: Au



## GENERAL SUMMARY FORM

Core No. KK72 FFC 04 Sta. 27Lat. 18°02.06'SLocation Long. 104°17.62'WGENERAL MEGASCOPIC DESCRIPTION

0-30cm: Very dark gray ( $10 \text{ yr}^3/1$ ) rad bearing nanno rich clay; 69% clay, 25% nanno, 5% rad, (aniso min trace). 30-84cm: White ( $10 \text{ yr}^8/2$ ) rad bearing clay rich nanno ooze: 80-85% nanno, 10-15% clay, 4% rad (aniso min-diatom trace). Very slight to slight mottling throughout core; colors very dark gray ( $10 \text{ yr}^3/1$ ), very dark grayish brown ( $10 \text{ yr}^3/2$ ), dark brown ( $10 \text{ yr}^3/3$ ), brown ( $10 \text{ yr}^5/3$ ), yellowish brown ( $10 \text{ yr}^5/4$ ), very pale brown ( $10 \text{ yr}^7/4$ ), white ( $10 \text{ yr}^8/1$ ) to ( $10 \text{ yr}^8/2$ ). 0-4 and 80-84cm: Void.

AGE: Upper Miocene (N18)

Clay

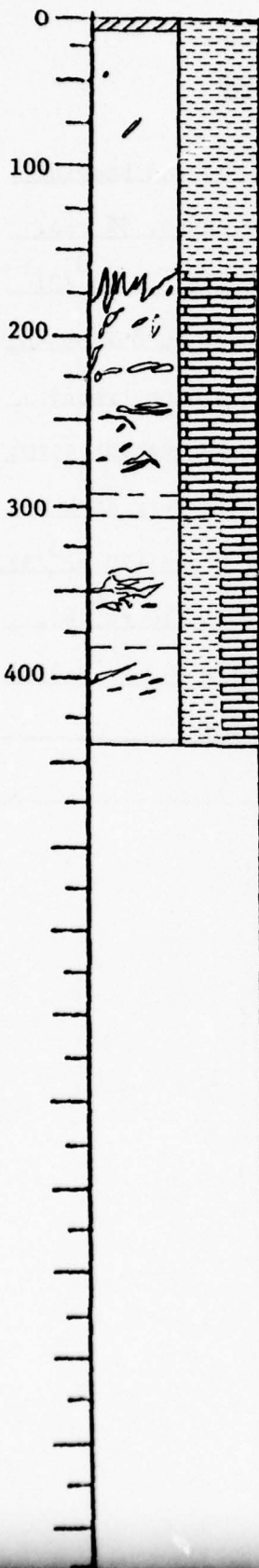
Nanno ooze

Mottling

Sharp contact

Void areas

## GENERAL SUMMARY FORM

Depth  
(cm)Core No. KK72 PCOD 19 Sta. 27Lat. 18°01.86'SLocation Long. 104°18.32'WGENERAL MEGASCOPIC DESCRIPTION0-163cm: Black ( $10 \text{ yr}^{2.5}/1$ ) nanno and radbearing clay; 79-93% clay, 5-7% rad, 0-7% nanno.163-290cm: Very pale brown ( $10 \text{ yr}^8/3$ ) rad andclay bearing nanno ooze; 94-95% nanno, 2% clay,2% rad, 1-2% aniso min. 290-305cm: Pale brown( $10 \text{ yr}^6/3$ ) rad bearing clay rich nanno ooze;86% nanno, 10% clay, 2% rad, 2% aniso min.305-437cm: Light yellowish brown ( $10 \text{ yr}^6/4$ ) toyellowish brown ( $10 \text{ yr}^5/4$ ) rad bearing claynanno ooze; 66-71% nanno, 25-30% clay, 2% rad,2% aniso min. Slight to heavy mottling scatteredthrough the core; yellowish brown ( $10 \text{ yr}^5/6$ ),black ( $10 \text{ yr}^{2.5}/1$ ), white ( $2.5 \text{ yr}^8/2$ ), very palebrown ( $10 \text{ yr}^7/3$ ), yellow ( $10 \text{ yr}^7/6$ ), darkyellowish brown ( $10 \text{ yr}^4/4$ ).

Clay

Nanno ooze

Clay-nanno ooze

Mottling

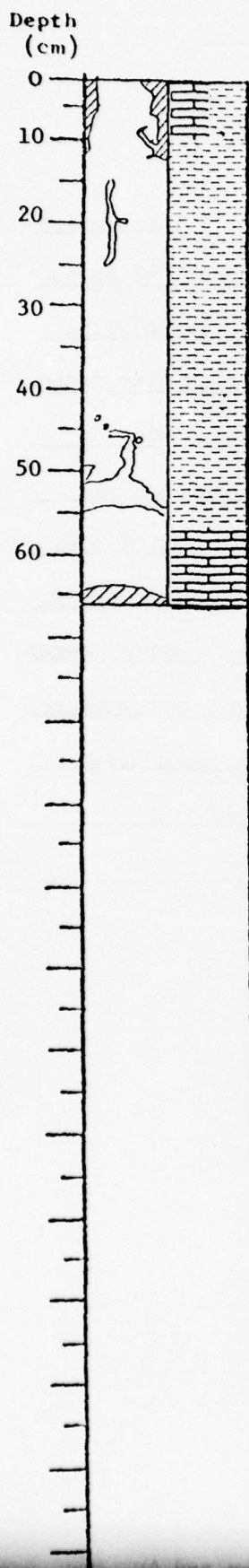
Sharp and gradational contacts

Void area

AGE: Upper Miocene (N18)

A-35

GENERAL SUMMARY FORM



Core No. KK72 FFC 06 Sta. 28

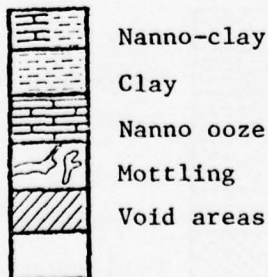
Lat. 18°00.37'S

Location Long. 107°00.91'W

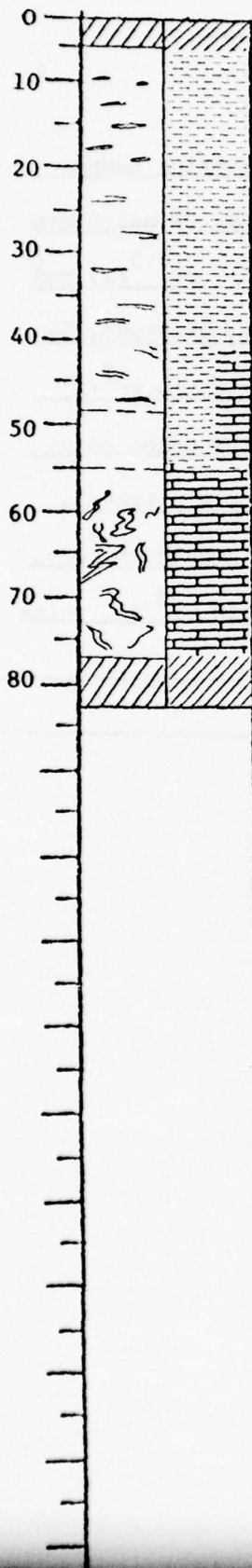
GENERAL MEGASCOPIC DESCRIPTION

0-10cm: Black ( $10 \text{ yr}^{2.5}/1$ ) rad bearing nanno  
clay; 62% clay, 33% nanno, 4% rad, 2% aniso min  
(foram trace). 10-55cm: Black ( $10 \text{ yr}^{2.5}/1$ ) rad  
and nanno bearing clay; 86% clay, 5% nanno, 5%  
aniso min, 4% rad. 55-67cm: White ( $10 \text{ yr}^8/2$ )  
to ( $10 \text{ yr}^8/1$ ) clay and rad bearing nanno ooze;  
93% nanno, 4% rad, 2% clay (aniso min trace).  
Very slight to slight mottling throughout core;  
colors very dark grayish brown ( $10 \text{ yr}^3/2$ ), white  
( $10 \text{ yr}^8/2$ ) to ( $10 \text{ yr}^8/1$ ).

AGE: Upper Miocene (N18)



## GENERAL SUMMARY FORM

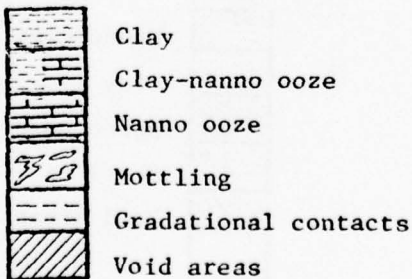
Depth  
(cm)

Core No. KK72 FFC 07 Sta. 28  
 Lat. 18°00.38'S  
 Location Long. 107°00.03'W

## GENERAL MEGASCOPIC DESCRIPTION

0-40cm: Very dark gray ( $10 \text{ yr}^3/1.5$ ) rad bearing nanno rich clay; 83% clay, 10% nanno, 4% aniso, 3% rad. 40-55cm: Very dark gray ( $10 \text{ yr}^3/1.5$ ) to dark brown ( $10 \text{ yr}^3/3$ ) rad bearing clay-nanno ooze; 45% nanno, 40% clay, 10% aniso min, 5% rad. 55-82cm: White ( $10 \text{ yr}^8/2$ ) clay and rad bearing nanno ooze; 94% nanno, 3% rad, 3% clay (foram-aniso min trace). Very slight to heavy mottling throughout core; sparse in upper, dense in lower half of core; colors very dark grayish brown ( $10 \text{ yr}^3/2$ ) to ( $10 \text{ yr}^3/1.5$ ), dark brown ( $10 \text{ yr}^3/3$ ). 0-5 and 77-83cm: Void.

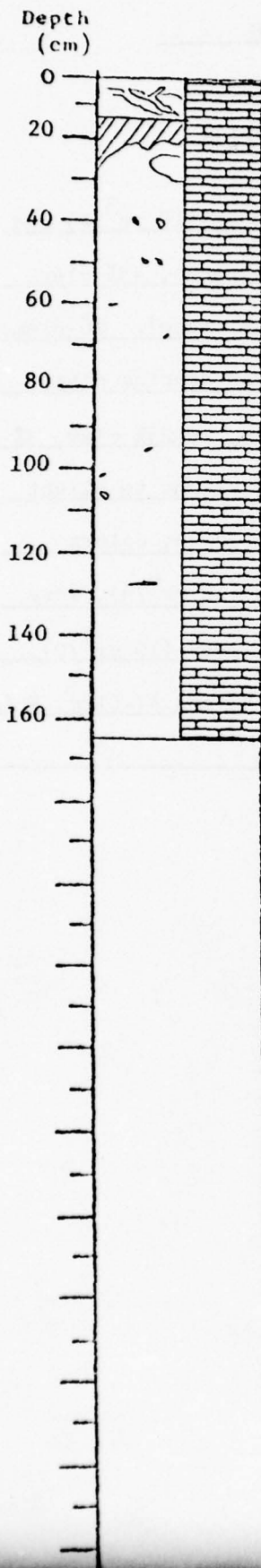
AGE: Upper Miocene (N18)





A-37

GENERAL SUMMARY FORM



Core No. KK72 PCOD 20 Sta. 28

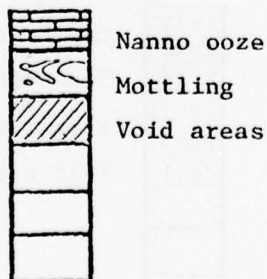
Lat. 18°00.36'S

Location Long. 106°59.57'W

GENERAL MEGASCOPIC DESCRIPTION

0-165cm: Pale brown (10 yr<sup>6.5</sup>/3) rad, foram  
and clay bearing nanno ooze; 86-89% nanno, 5-8%  
clay, 2% foram, 2% rad. Very slight to slight  
mottling where indicated; very pale brown  
(10 yr<sup>8</sup>/4) (10 yr<sup>7</sup>/3). Forams are visible  
macroscopically through the core. 13-29cm:  
Void.

AGE: Upper Miocene (N18)

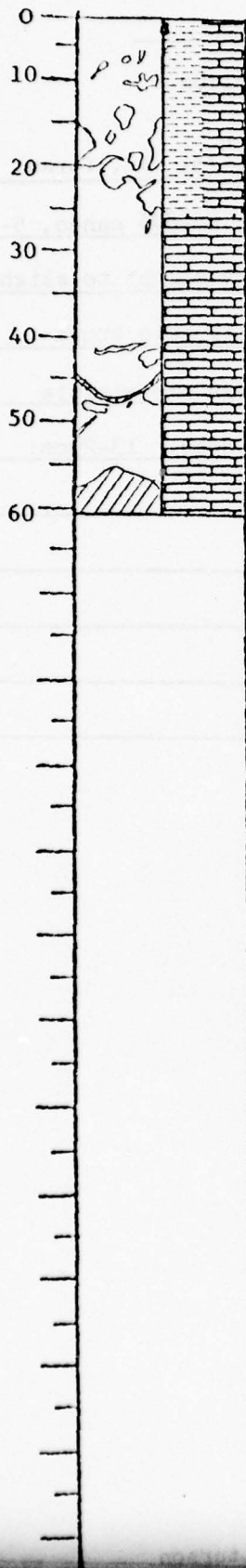


Logged by: Patterson

A-38

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 08 Sta. 28

Lat. 18°00.35'S

Location Long. 106°59.60'W

GENERAL MEGASCOPIC DESCRIPTION

0-26cm: Very dark grayish brown (10 yr<sup>3</sup>/2) rad

bearing clay-nanno ooze; 50% nanno, 43% clay,

3% rad, 1-4% aniso min (foram trace). 26-61cm:

Very pale brown (10 yr<sup>7</sup>/3) rad bearing clay

rich nanno ooze; 71-76% nanno, 20-25% clay, 3%

rad (aniso min trace). Very slight to slight

mottling scattered throughout core; colors

brown (10 yr<sup>4</sup>/3), pale brown (10 yr<sup>6</sup>/3), very

pale brown (10 yr<sup>8</sup>/2), light gray (10 yr<sup>7</sup>/2),

pale yellow (2.5 yr<sup>8</sup>/4). 44-47 and 47-61cm: Void.

AGE: Upper Miocene (N18)



Clay-nanno ooze

Nanno ooze

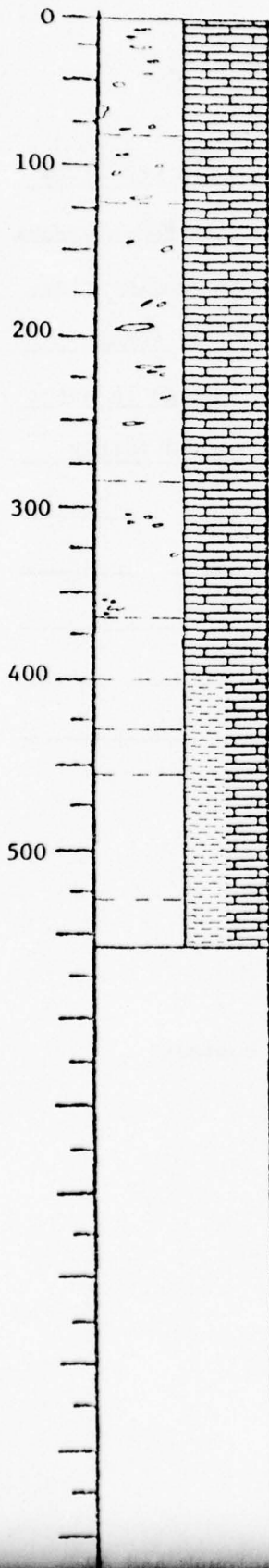
Mottling

Void area

A-39

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PCOD 21 Sta. 29

Lat. 18°22.88'S

Location Long. 110°25.93'W

GENERAL MEGASCOPIC DESCRIPTION

0-81cm: Pale brown (10 yr<sup>6</sup>/3) clay rich nanno

ooze; 80-81% nanno, 10-15% clay, 3-5% aniso min.

81-283cm: Very pale brown (10 yr<sup>7</sup>/3) to white

(10 yr<sup>8</sup>/2) foram and clay bearing nanno ooze;

90% nanno, 5% clay, 2-3% foram, 2-3% aniso

min. 283-400cm: Very pale brown (10 yr<sup>7</sup>/3) to

pale brown (10 yr<sup>6</sup>/3) foram bearing clay rich

nanno ooze; 83-85% nanno, 10% clay, 2% foram,

3-5% aniso min. 400-553cm: Brown (10 yr<sup>5</sup>/3) to

(10 yr<sup>4</sup>/3) to dark brown (10 yr<sup>3</sup>/3) to very dark

grayish brown (10 yr<sup>3</sup>/2) foram bearing clay

nanno ooze; 55-75% nanno, 20-40% clay, 3-5%

foam, 0-2% aniso min. Moderate to heavy

mottling scattered through the top two-thirds

of the core; white (10 yr<sup>8</sup>/2), very pale brown



Nanno ooze

Clay-nanno ooze

Mottling

Gradational contact

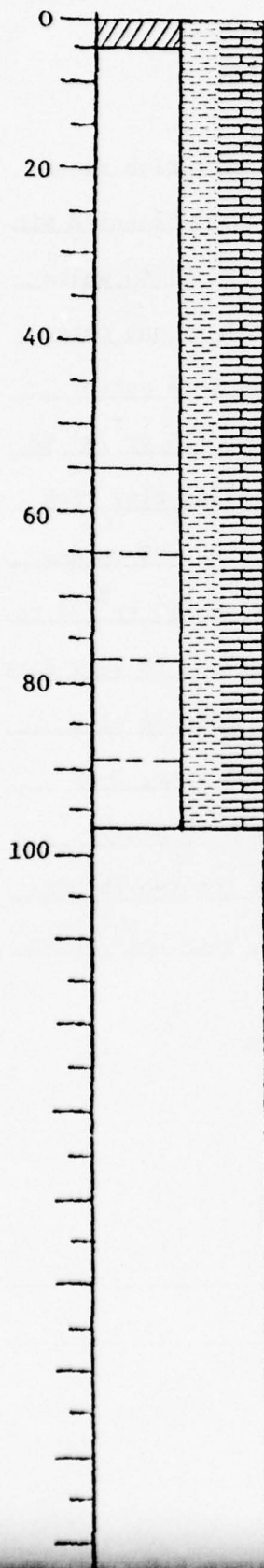
(10 yr<sup>7</sup>/3).

AGE: Pliocene (N19)

A-40

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC10 Sta. 30

Lat. 18°50.45'S

Location Long. 113°16.30'W

GENERAL MEGASCOPIC DESCRIPTION

0-97cm: Very dark grayish brown (10 yr<sup>3</sup>/2) to  
black (10 yr<sup>2.5</sup>/1) and (5 yr<sup>2.5</sup>/1) to very dark  
brown (5 yr<sup>2.5</sup>/2). foram bearing clay-  
nanno ooze; 52% nanno, 46% clay, 2% foram  
(rad-aniso min trace). Abrupt change in water  
content at 69cm --very wet above and fairly  
dry below that interval.

AGE: Quaternary



Clay-nanno ooze

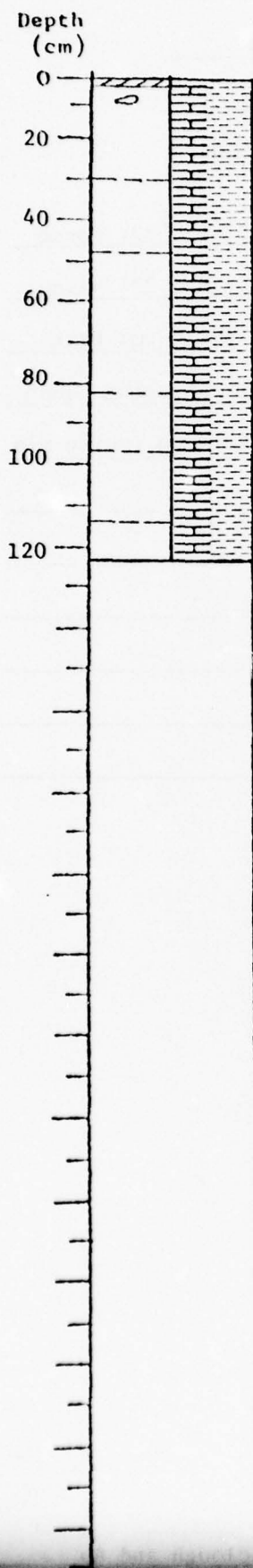
Sharp and gradational contacts

Void area



A-41

GENERAL SUMMARY FORM



Core No. KK72 FEC13 Sta. 30

Lat. 18°50.51'S

Location Long. 113°31.37'W

GENERAL MEGASCOPIC DESCRIPTION

0-122cm: Black (10 yr<sup>2.5</sup>/1) to dark reddish  
brown (5 yr<sup>2.5</sup>/2) foram bearing nanno-clay;  
47-69% clay, 30-48% nanno, 1-5% foram (aniso  
min trace). Ash rich mottle present at 8cm  
depth.

AGE: Quaternary



Nanno-clay

Mottling

Gradational contact

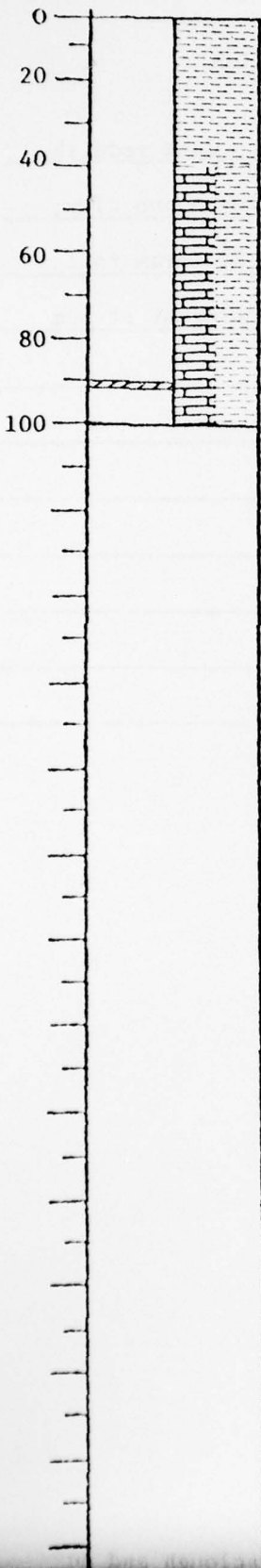
Void area

Logged by: Barracough and Au

A-42

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 15 Sta. 30

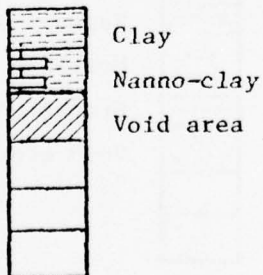
Lat. 18°50.48'S

Location Long. 113°38.37'W

GENERAL MEGASCOPIC DESCRIPTION

0-40cm: Dark reddish brown (5 yr<sup>2.5</sup>/2) foram  
bearing nanno rich clay; 76% clay, 22% nanno,  
2% foram (aniso min trace). 40-100cm: Dark  
reddish brown (5 yr<sup>2.5</sup>/2) foram bearing nanno-  
clay; 50% clay, 48% nanno, 2% foram (aniso min  
trace). 90-92cm: Void.

AGE: Quaternary

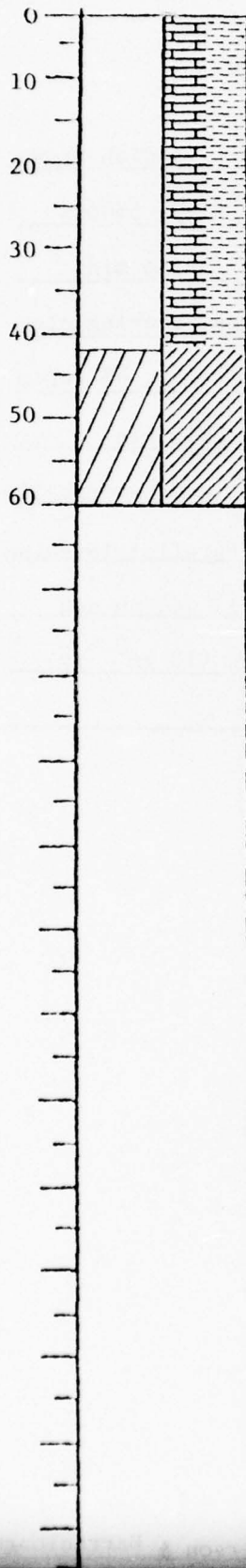


Logged by: Barraclough and Au

A-43

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 18 Sta. 30

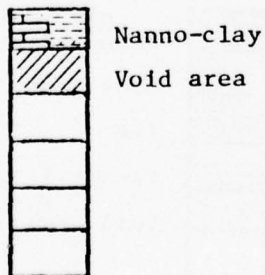
Lat. 18°50.40'S

Location Long. 113°44.55'W

GENERAL MEGASCOPIC DESCRIPTION

0-42cm: Reddish black ( $10 r^{2.5}/1$ ) foram bearing  
nanno clay; 50% clay, 48% nanno, 2% foram (rad-  
aniso min trace). 42-60cm: Void.

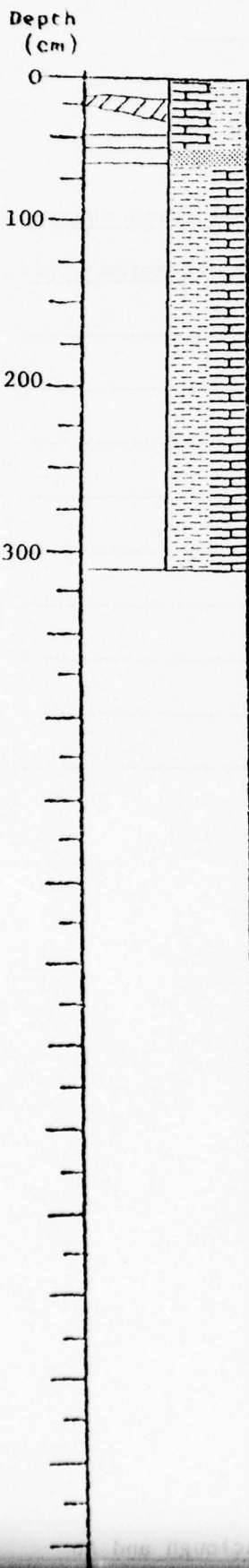
AGE: Quaternary



Logged by: Barracough and Au

A-44

GENERAL SUMMARY FORM

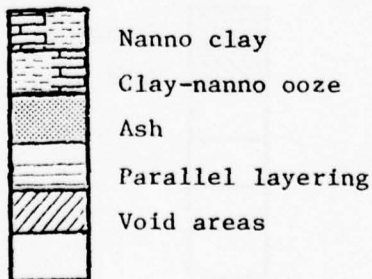


Core No. KK72 PCOD 22 Sta. 30  
 Lat. 18°50.13'S  
 Location Long. 113°43.64'W

GENERAL MEGASCOPIC DESCRIPTION

0-58cm: Black ( $5 \text{ yr}^{2.5}/1$ ) to dark reddish brown  
 ( $5 \text{ yr}^{2.5}/2$ ) foram bearing nanno clay; 55-60%  
 clay, 35-40% nanno, 3% foram, 2% aniso min.  
 53-312cm: Black ( $10 \text{ yr}^{2.5}/1$ ) foram bearing clay  
 nanno ooze; 50-55% nanno, 40-45% clay, 4% foram  
 (rad trace). There is almost no visible  
 mottling. Ash staining apparent macroscopically  
 in the ( $10 \text{ yr}^{2.5}/1$ ) segments. Parallel layering  
 48-51cm depth; black ( $10 \text{ yr}^{2.5}/1$ ) and an ash  
 layer 51-58cm dark reddish brown ( $10 \text{ yr}^{2.5}/2$ ).

AGE: Quaternary

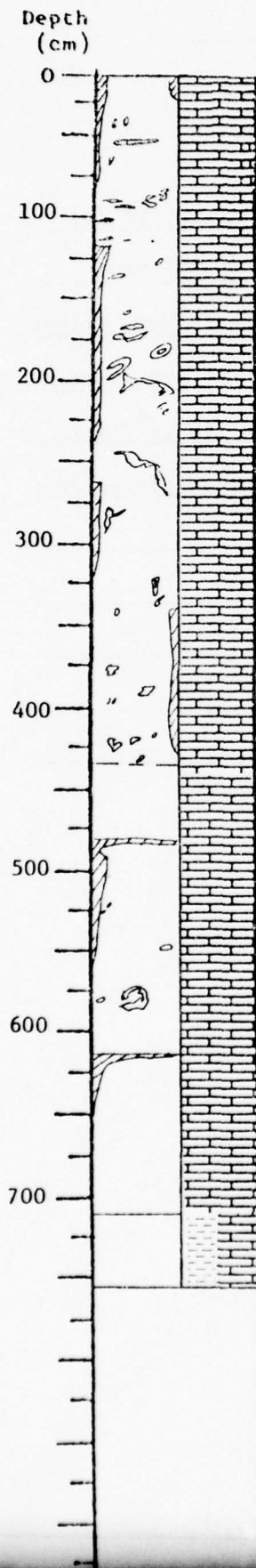


Logged by: Patterson & Barraclough



A-45

GENERAL SUMMARY FORM



Core No. KK72 PCOD 23 Sta. 31

Lat. 19°00.10'S

Location Long. 111°45.30'W

GENERAL MEGASCOPIC DESCRIPTION

0-430cm: Pale brown (10 yr<sup>6</sup>/3) rad and clay bearing foram rich nanno ooze; 67-75% nanno, 10-15% foram, 5-10% clay, 5-8% rad. 430-709cm: Brown (10 yr<sup>5</sup>/3) rad and foram bearing clay rich nanno ooze; 70-72% nanno, 15-18% clay, 5-10% foram, 5% rad. 710-752cm: Very dark grayish brown (10 yr<sup>3</sup>/2) rad and foram bearing clay nanno ooze; 55-65% nanno, 20-35% clay, 5-10% foram, 5% rad. Very slight to moderate mottling scattered through the core; very pale brown (10 yr<sup>8</sup>/3); brown (10 yr<sup>5</sup>/3). Partial void due to shrinkage along most of the core liner margin.

AGE: Quaternary



Nanno ooze

Clay-nanno ooze

Mottling

Sharp and gradational contacts

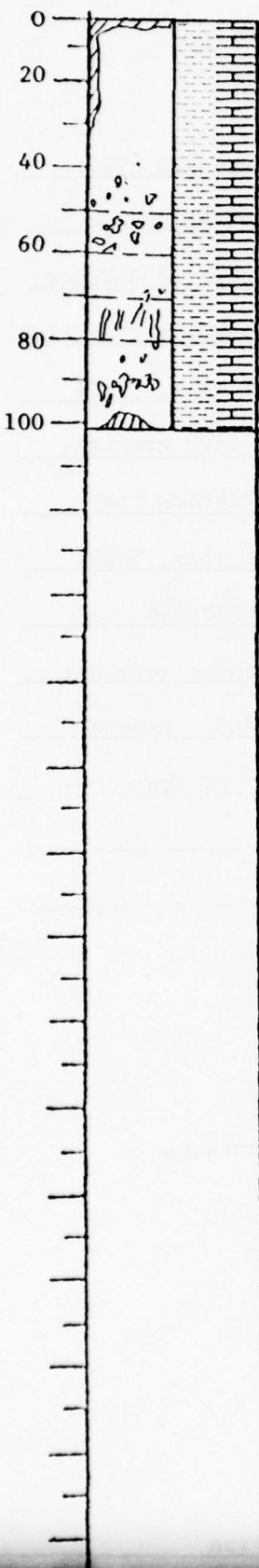
Void areas

Logged by: Patterson

A-46

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 19, Sta. 36

Lat. 28°00.19'S

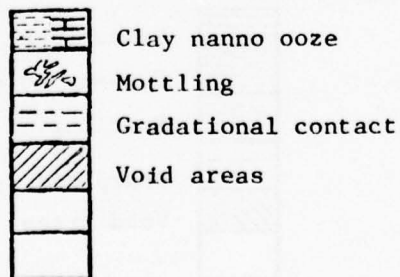
Location Long. 104°43.78'W

GENERAL MEGASCOPIC DESCRIPTION

0-101cm: Dark brown (10 yr<sup>3</sup>/3) to (10 yr<sup>4</sup>/3)  
clay-nanno ooze; 53-57% nanno, 40-45% clay  
(rad, foram, and aniso min trace). Very slight  
to moderate mottling scattered through lower  
half of core; colors dark brown (10 yr<sup>4</sup>/3) to  
(10 yr<sup>3</sup>/3), very dark grayish brown (10 yr<sup>3</sup>/2).

0-30cm: Partial void.

AGE: Pleistocene (N22)

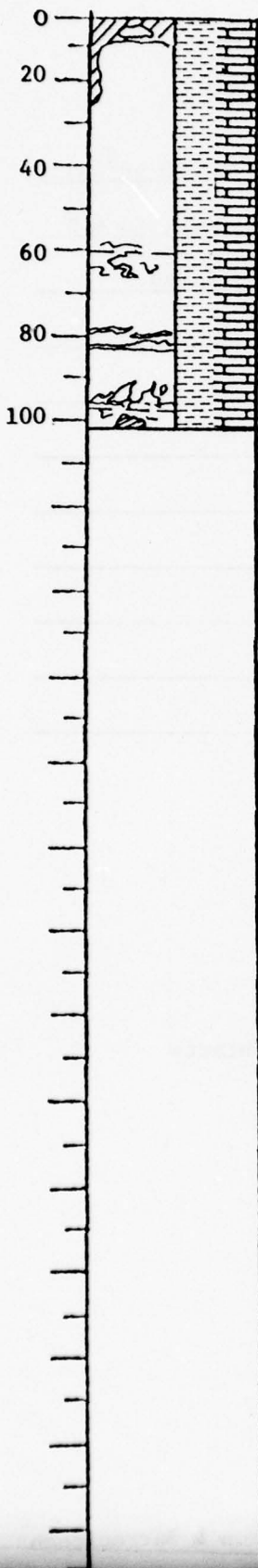


Logged by: Au

A-47

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 20 Sta. 36

Lat. 28°00.34'S

Location Long. 104°43.87'W

GENERAL MEGASCOPIC DESCRIPTION

0-102cm: Dark brown ( $7.5 \text{ yr}^3/2$ ) to ( $10 \text{ yr}^3/3$ )  
to ( $10 \text{ yr}^4/3$ ) foram-rad bearing clay-nanno  
ooze; 50-60% nanno, 35-43% clay, 0-5% aniso  
min, 2-3% rad, 2-3% foram. Very slight to  
heavy mottles scattered through bottom half of  
core; colors dark brown ( $10 \text{ yr}^3/3$ ) to ( $10 \text{ yr}^4/3$ )  
to ( $7.5 \text{ yr}^3/2$ ), brown ( $10 \text{ yr}^3/3$ ). Parallel  
layer at 82-83cm: Brown ( $10 \text{ yr}^5/3$ ) foram-rad  
bearing clay-nanno ooze.

AGE: Pleistocene (N22)



Clay-nanno ooze

Mottling

Parallel layering

Sharp and gradational contact

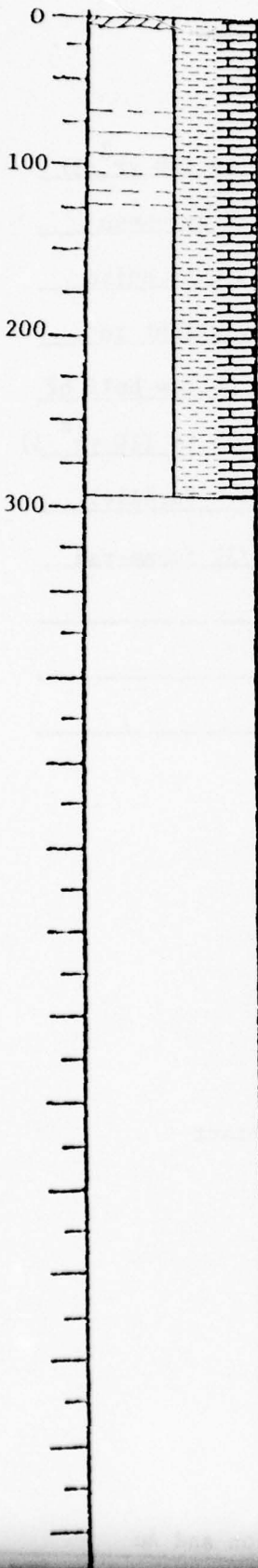
Void area

Logged by: Patterson and Au

A-48

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PCOD 24 Sta. 36

Lat. 28°00.53'S

Location Long. 104°45.27'W

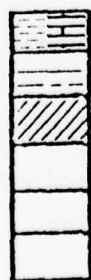
GENERAL MEGASCOPIC DESCRIPTION

0-297cm: Dark brown (7.5 yr<sup>3</sup>/2) to (10 yr<sup>3</sup>/3)

rad and foram bearing clay nanno ooze; 50-65%

nanno, 25-35% clay, 5-10% foram, 5% rad.

AGE: Quaternary



Clay-nanno ooze

Sharp and gradational contacts

Void areas

Logged by: Patterson & Barraclough



A-49

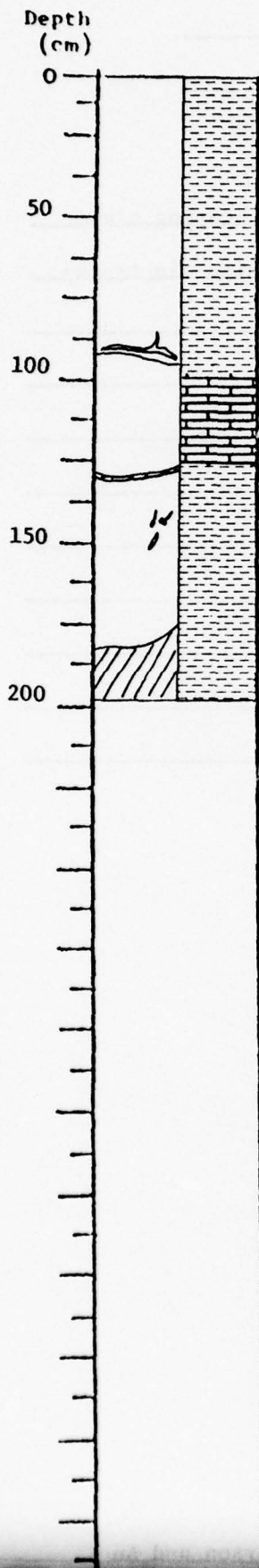
GENERAL SUMMARY FORM

Core No. KK72 PCOD 25 Sta. 37

Lat. 23° 40.36' S

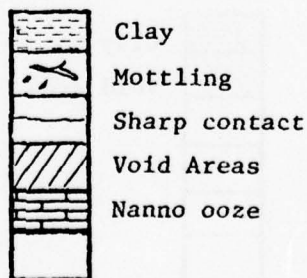
Location Long. 100° 08.83' W

GENERAL MEGASCOPIC DESCRIPTION



0-92 cm: Black ( $5 \text{ yr}^{2.5/1}$ ) rad and nanno rich clay; 80% clay, 10% nanno, 10% rad. 92-132cm: Yellowish brown ( $10 \text{ yr}^{5/4}$ ) rad and clay bearing nanno ooze; 93% nanno, 5% clay, 2% rad. 132-189cm: dark brown ( $7.5 \text{ yr}^{3/2}$ ) to yellowish brown ( $10 \text{ yr}^{5/4}$ ) Nanno bearing rad rich clay; 83% clay, 10% rad, 7% nanno. Very slight to slight mottling as indicated through the core; dark yellowish brown ( $10 \text{ yr}^{4/4}$ ) to very pale brown ( $10 \text{ yr}^{8/4}$ ). 132cm, 182-190 cm: Void.

AGE: Upper Miocene (N18)

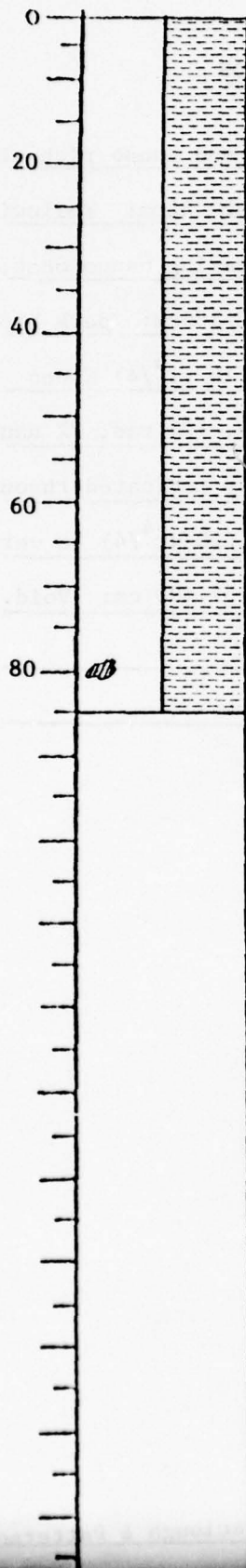


Logged by: Barracough & Patterson

A-50

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 21 Sta. 38

Lat. 23°40.44'S

Location Long. 100°09.08'W

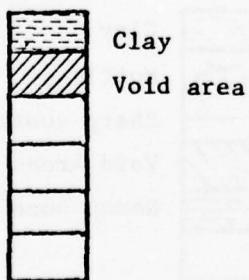
GENERAL MEGASCOPIC DESCRIPTION

0-85cm: Black (5 yr<sup>2.5</sup>/1) rad bearing clay:

96% clay, 3% rad (nanno and aniso min trace).

79-81.5cm: Partial void.

AGE: Pliocene-Quaternary(?)

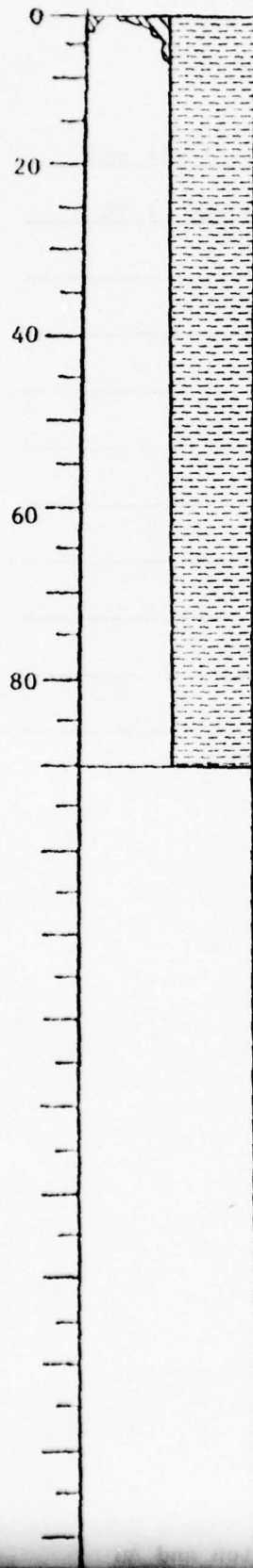


Logged by: Patterson and Au

A-51

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 22 Sta. 38

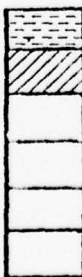
Lat. 23°40.43'S

Location Long. 100°08.94'W

GENERAL MEGASCOPIC DESCRIPTION

0-90cm: Dark reddish brown (5 yr<sup>2.5</sup>/2) rad  
bearing clay; 97% clay, 2% rad (nanno and aniso  
min trace). 0-7cm: Partial void.

AGE: Undetermined



Clay

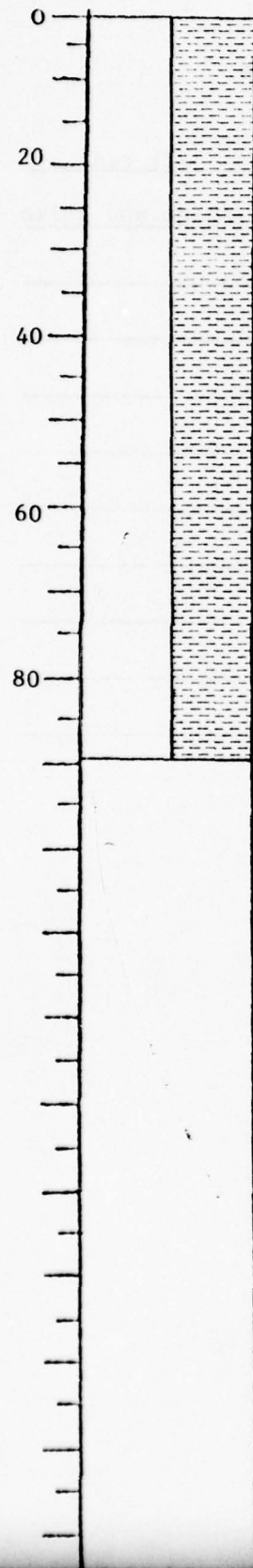
Void area

Logged by: Au

A-52

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 23 Sta. 38

Lat. 23°40.42'S

Location Long. 100°08.66'W

GENERAL MEGASCOPIC DESCRIPTION

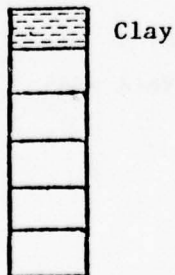
0-89cm: Dark reddish brown (5 yr<sup>2.5</sup>/2) rad

bearing clay; 93-95% clay, 4-5% rad, 1-2%

nanno (aniso min trace).

AGE: Pliocene-Quaternary(?)

Five horizontal lines for additional description or notes.



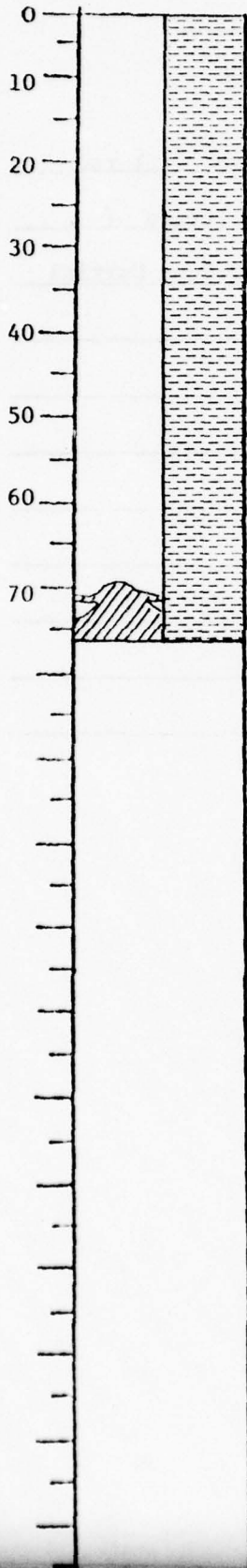
Logged by: Patterson and Au



A-53

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC 24 Sta. 38

Lat. 23°40.40'S

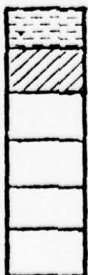
Location Long. 100°08.44'W

GENERAL MEGASCOPIC DESCRIPTION

0-77cm: Dark reddish brown (5 yr<sup>2.5</sup>/2) rad

bearing clay; 97% clay, 2% rad (trace of nanno-  
fossils and aniso min). 71-77cm: Void.

AGE: Undetermined



Clay

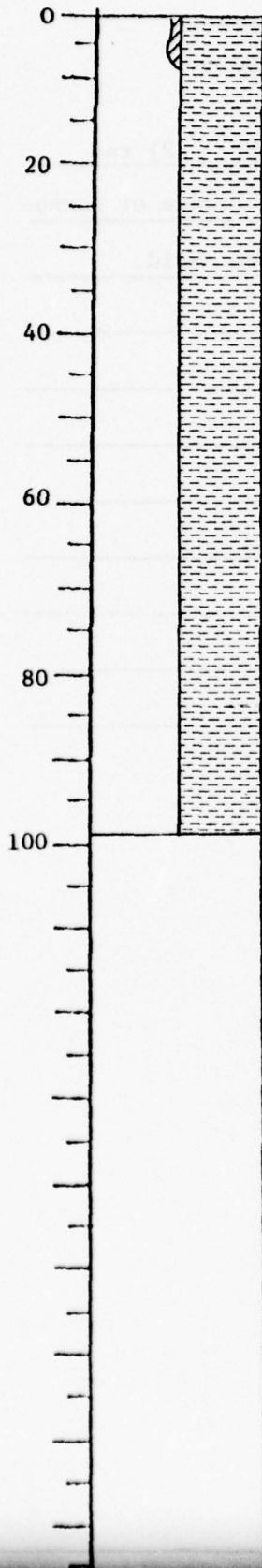
Void area

Logged by: Au

A-54

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 EFC 25 Sta. 38

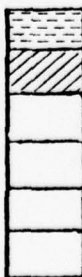
Lat. 23°40.38'S

Location Long 100°08.15'W

GENERAL MEGASCOPIC DESCRIPTION

0-98cm: Dark reddish brown (5 yr<sup>2.5</sup>/2) rad  
bearing clay: 97% clay, 2% rad (trace of  
nannofossils and aniso min). 0-8cm: Partial  
void.

AGE: Undetermined



Clay

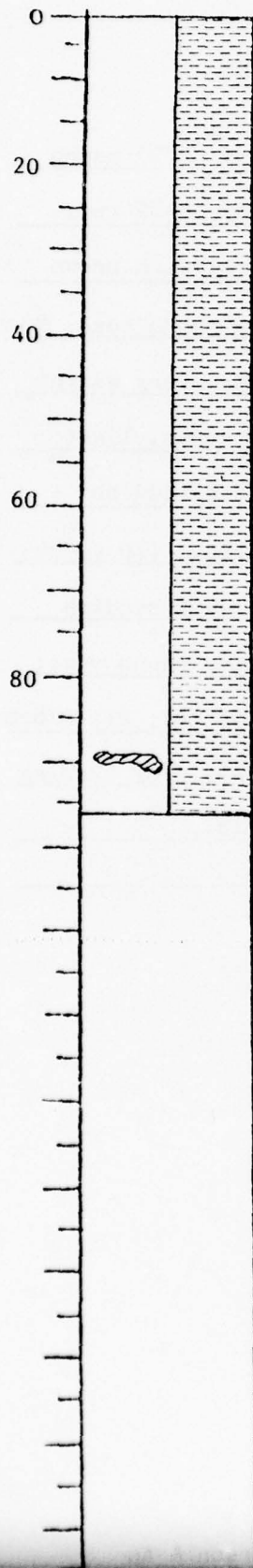
Void area

Logged by: Au

A-55

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC27 Sta. 38

Lat. 23°40.35'S

Location Long. 100°07.51'W

GENERAL MEGASCOPIC DESCRIPTION

0-95cm: Black (5 yr<sup>2.5</sup>/1) rad bearing clay;

96% clay, 3% rad (trace of nanno, foram and  
aniso min). 89-91cm: Partial void.

AGE: Undetermined



Clay

Void area

Logged by: Au

GENERAL SUMMARY FORM

A geological cross-section diagram showing the Tertiary section at the base of the Tertiary section. The vertical axis on the left is marked with depths in feet: 0, 100, 200, and 300. The section is divided into two main columns. The left column shows a sequence of layers: a top layer with horizontal dashes, followed by a layer with wavy lines, and then a layer with horizontal lines. The right column shows a sequence of layers: a top layer with horizontal dashes, followed by a layer with horizontal lines, and then a layer with horizontal lines. The Tertiary section is indicated by a vertical line on the right side of the diagram.

Lat.  $23^{\circ}40.43'S$

Location Long.  $100^{\circ}8.09'W$

### GENERAL MEGASCOPIIC DESCRIPTION

0-259cm: Dark reddish brown (5 yr<sup>2.5</sup>/2) nanno  
and rad bearing clay; 85-90% clay, 5-8% rad,  
3-7% nanno. 259-310cm: Light yellowish brown  
(10 yr<sup>6</sup>/4) rad bearing clay rich nanno ooze; 80-  
88% nanno, 10-15% clay, 2-5% rad. Very slight  
to slight mottling at 253-274cm depth, light  
yellowish brown (10 yr<sup>6</sup>/4) to dark reddish  
brown (5 yr<sup>2.5</sup>/2) to yellowish brown (10 yr<sup>5</sup>/4).  
Parallel layering at 266-267cm; dark reddish  
brown (5 yr<sup>2.5</sup>/2) rad bearing clay nanno ooze;  
274-276cm, yellowish brown (10 yr<sup>5</sup>/4); 275-278cm,  
very pale brown (10 yr<sup>8</sup>/4) rad and clay bearing  
nanno ooze. 0-16cm: Partial void.

AGE: Quaternary



- Clay
- Nanno ooze
- Clay-nanno ooze
- Mottling
- Parallel layering
- Void areas

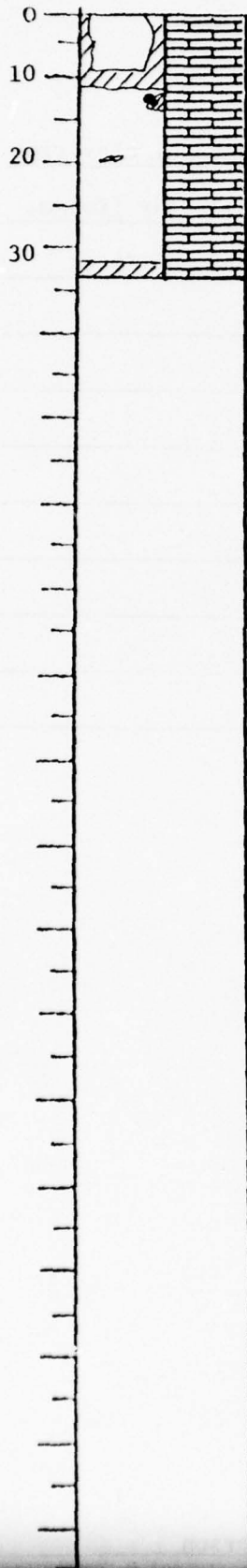
Logged by: Patterson & Au



A-57

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC28 Sta. 39

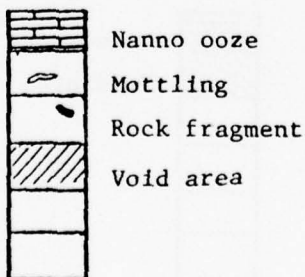
Lat. 24°29.50'S

Location Long. 111°43.07'W

GENERAL MEGASCOPIC DESCRIPTION

0-33cm: Light yellowish brown (10 yr<sup>6</sup>/4) rad  
and foram bearing clay rich nanno ooze; 53-63%  
nanno ooze; 20-30% clay, 5% rad, 2% aniso min,  
10% foram. There is one very slight mottle at  
19cm, v. pale brown (10 yr<sup>7</sup>/4). 3cm diameter  
basalt fragment found at 11-13cm. 0-11, 14-15cm:  
Partial voids. 8-11, 32-33cm: Void.

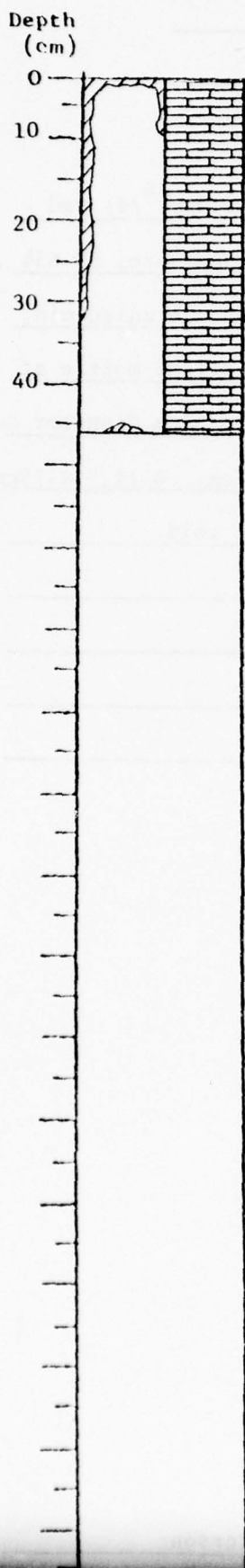
AGE: Quaternary



Logged by: Patterson

A-58

GENERAL SUMMARY FORM

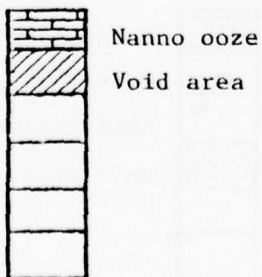


Core No. KK72 FFC33 Sta. 39  
Lat. 24°29.47'S  
Location Long. 111°33.76'W

GENERAL MEGASCOPIC DESCRIPTION

0-46cm: Light olive brown (2.5 y<sup>5</sup>/6) clay rich  
nanno ooze; 66-70% nanno, 27-33% clay (foram,  
rad and aniso min traces). 0-33, 45-46cm:  
Partial voids.

AGE: Pleistocene

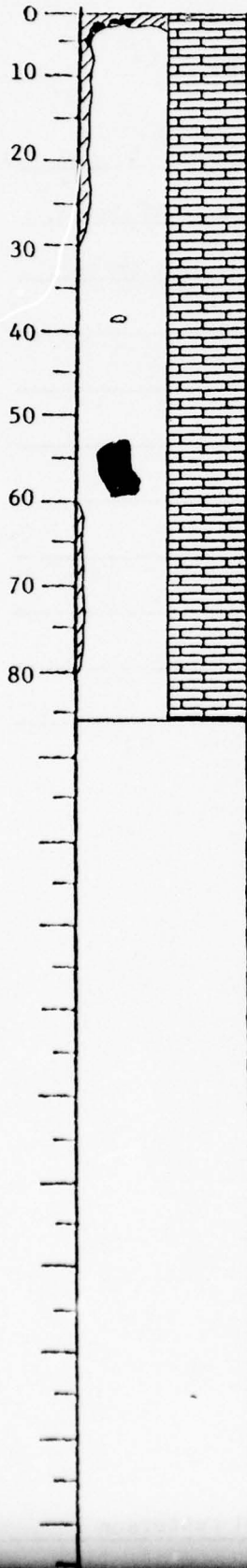


Logged by: Patterson

A-59

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC36 Sta. 39

Lat. 24°29.38'S

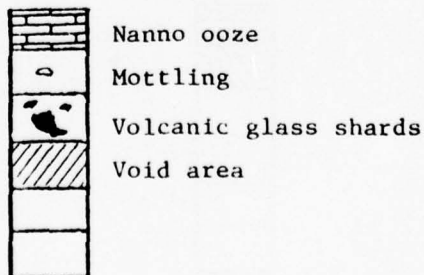
Location Long. 111°28.28'W

GENERAL MEGASCOPIC DESCRIPTION

0-86cm: Light olive brown (2.5 y<sup>5</sup>/6) foram  
bearing clay rich nanno ooze; 66-77% nanno, 20-  
28% clay, 1-3% foram, 1-2% aniso min (rad trace).

Very slight pale yellow (2.5 y<sup>8</sup>/4) mottle at  
39cm. Large volcanic glass shards at 0-4cm,  
53-59cm. 0-3cm and 60-80cm: Partial voids.

AGE: Holocene (N23)

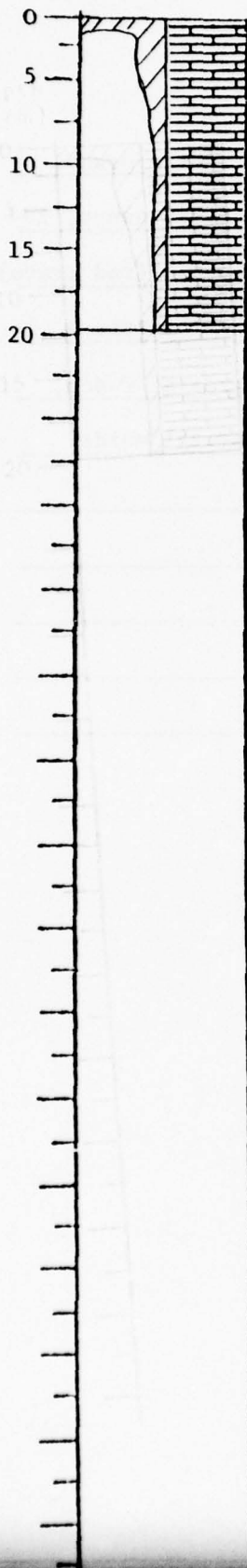


Logged by: Au

A-60

GENERAL SUMMARY FORM

Depth  
(cm)



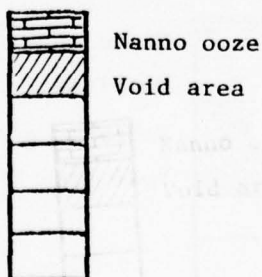
Core No. KK72 FFC 37 Sta. 39  
Lat. 24°29.37'S  
Location Long. 111°27.76'W

GENERAL MEGASCOPIC DESCRIPTION

0-19cm: Light yellowish brown (10 yr<sup>6</sup>/4) rad  
and foram bearing clay nanno ooze; 60% nanno.  
30% clay, 8% foram, 2% rad (aniso min trace).

0-19cm: Partial void.

AGE: Pleistocene (N22)



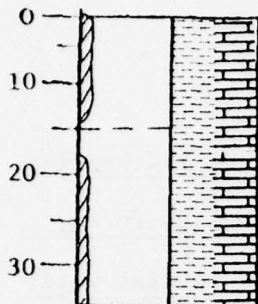
Logged by: Au and Patterson



A-61

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC40 Sta. 41

Lat. 24°29.12'S

Location Long. 111°50.62'W

GENERAL MEGASCOPIC DESCRIPTION

0-15cm: Yellowish brown (10 yr<sup>5</sup>/4) foram rich  
clay nanno ooze; 57% nanno, 30% clay, 10% foram  
(rad trace), 2% aniso min. 15-34cm: Light  
yellowish brown (10 yr<sup>6</sup>/4) rad and foram bearing  
clay nanno ooze; 62% nanno, 30% clay, 5% foram,  
2% rad, 1% aniso min. 0-34cm: Partial void.

AGE: Pleistocene (N22)



Clay-nanno ooze

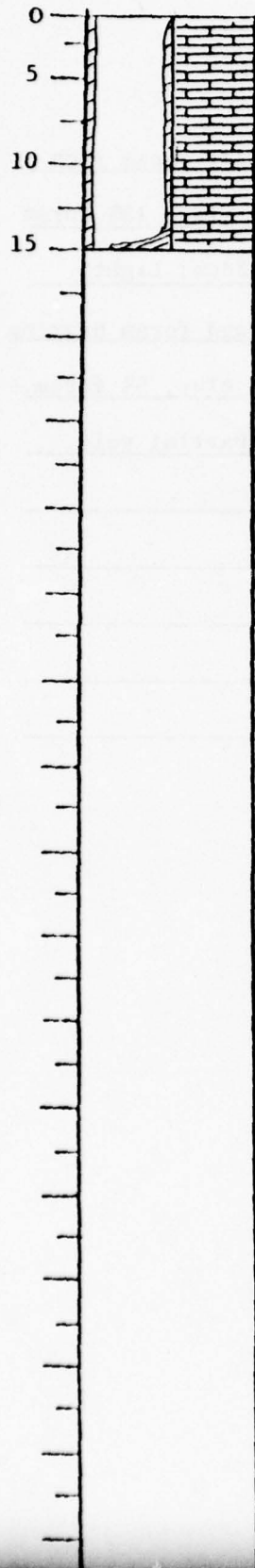
Gradational contact

Void area

A-62

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC41 Sta. 41

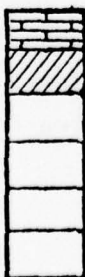
Lat. 24°28.86'S

Location Long. 111°52.73'W

GENERAL MEGASCOPIC DESCRIPTION

0-15cm: Yellowish brown (10 yr<sup>5</sup>/4) rad bearing  
foram rich nanno ooze; 57% nanno, 10% foram,  
2% nanno, 1% aniso min. 0-15cm: Partial void.

AGE: Holocene (N23)



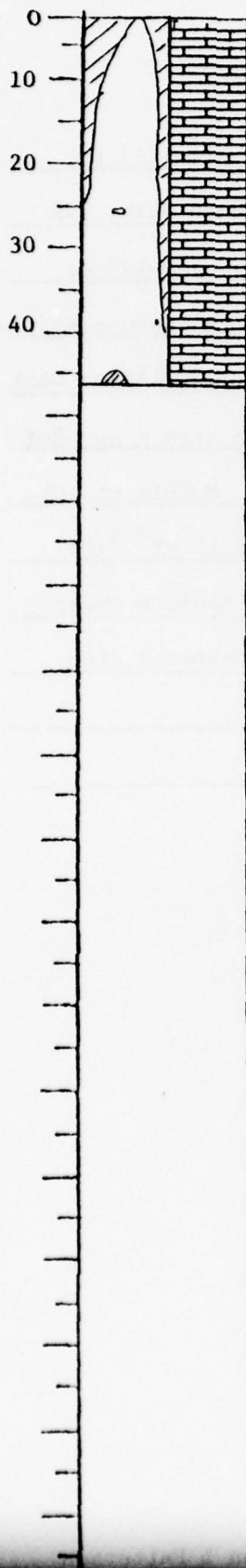
Nanno ooze

Void area

A-63

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC43 Sta. 41

Lat. 24°28.29'S

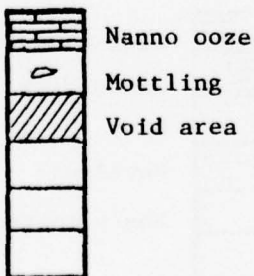
Location Long. 111°57.13'W

GENERAL MEGASCOPIC DESCRIPTION

0-47cm: Light olive brown ( $2.5 y^{5/6}$ ) rad and  
foram bearing clay rich nanno ooze; 68-70%  
nanno, 25% clay, 3-5% foram, 2% rad. Two very  
slight mottles, very pale brown ( $10 yr^{7/4}$ ) and  
olive brown ( $2.5 y^{4.5/4}$ ) at 26 and 38cm depth.

0-40cm: Partial void.

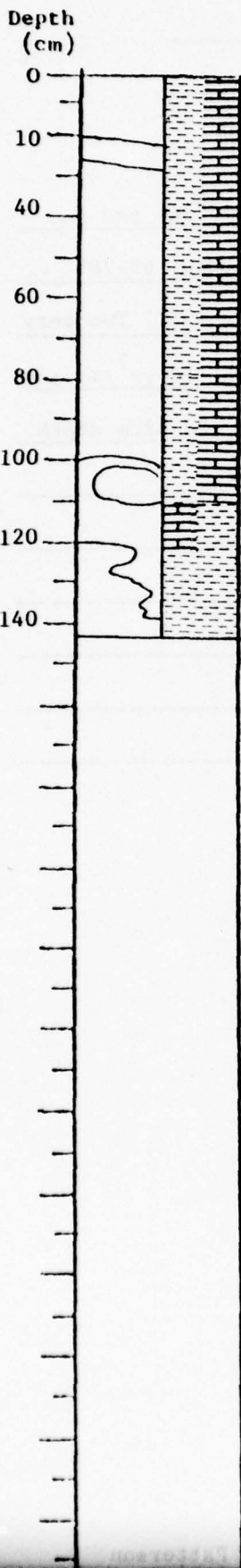
AGE: Holocene (N23)



Logged by: Au and Patterson

A-64

GENERAL SUMMARY FORM



Core No. KK72 PC 28 Sta. 42

Lat. 23°38.85'S

Location Long. 116°13.05'W

GENERAL MEGASCOPIC DESCRIPTION

0-110cm: Dark reddish brown (5 yr<sup>2.5</sup>/2) to

(5 yr<sup>3</sup>/2) foram bearing clay nanno ooze; 50%

nanno, 45-47% clay, 3-5% foram. 110-120cm:

Dusky red (10 r<sup>3</sup>/3) foram bearing nanno clay;

65% clay, 33% nanno, 2% foram. 120-142cm: Dark

reddish brown (5 yr<sup>2.5</sup>/2) nanno rich clay; 80%

clay, 15% nanno, 5% aniso min. Mottle at 101-

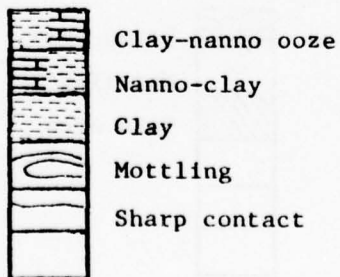
109cm depth; dark reddish brown (5 yr<sup>2.5</sup>/2).

Red clay interval at 110-120cm tending toward

coarser grain size - at times peppered with

obsidian glass shards.

AGE: Quaternary



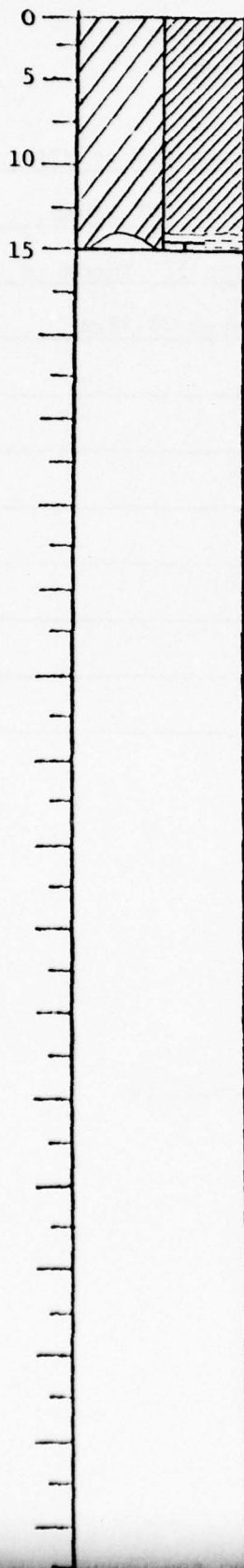
Logged by: Foreman & Patterson



A-65

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PCOD 29 Sta. 43

Lat. 23°30.56'S

Location Long. 115°59.02'W

GENERAL MEGASCOPIC DESCRIPTION

0-15cm: Dark brown (10 yr<sup>3</sup>/3) nanno clay; 50%

nanno, 50% clay.

AGE: Undetermined



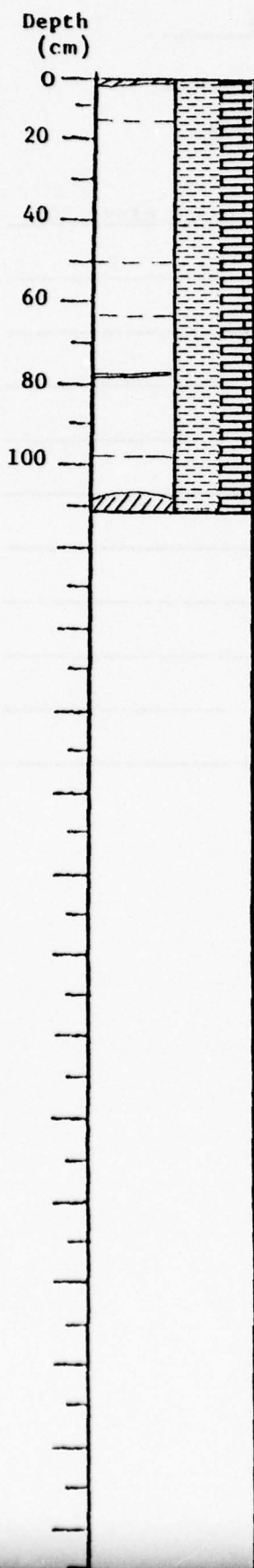
Nanno clay

Void areas

Logged by: Au

A-66

GENERAL SUMMARY FORM

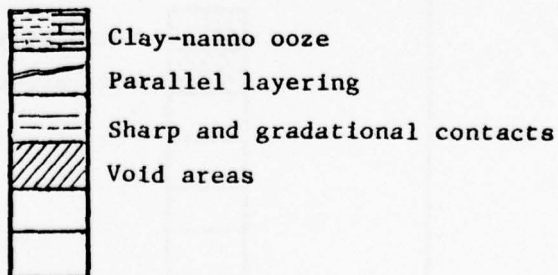


Core No. KK72 FFC51 Sta. 44  
Lat. 23°31.25'S  
Location Long. 115°47.80'W

GENERAL MEGASCOPIC DESCRIPTION

0-111cm: Very dark grayish brown ( $10 \text{ yr}^3/2$ ) to  
( $10 \text{ yr}^{3.5}/2$ ) clay nanno ooze; 49-50% nanno,  
48-49% clay (foram and rad trace). There is  
no mottling. One parallel layer 77-78cm:  
( $10 \text{ yr}^3/2$ ). 106-111cm: Void.

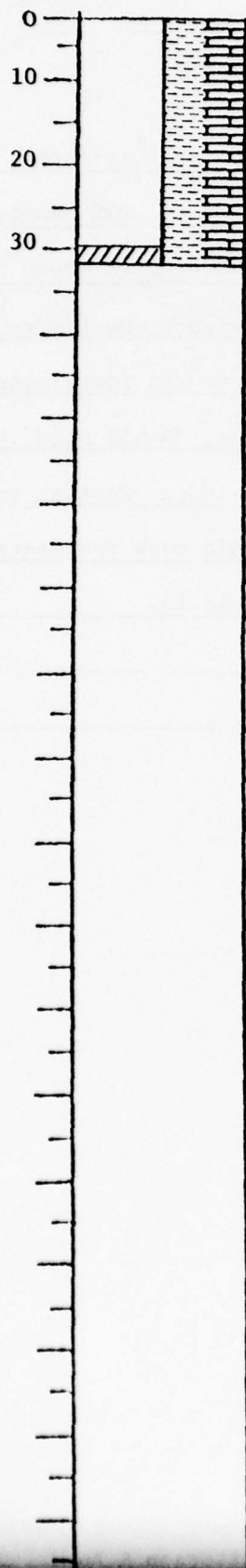
AGE: Quaternary



A-67

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PCOD 30 Sta. 44

Lat. 23°32.02'S

Location Long. 115°26.47'W

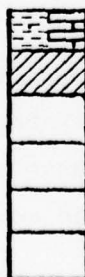
GENERAL MEGASCOPIC DESCRIPTION

0-29cm: Dark brown (7.5 yr<sup>3</sup>/2) foram bearing

clay nanno ooze; 50% nanno, 45% clay, 5% foram.

29-32cm: Void.

AGE: Quaternary



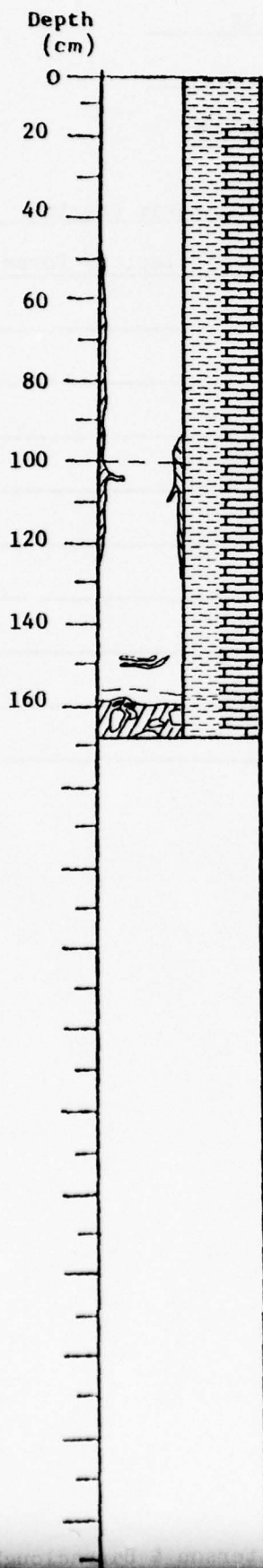
Clay-nanno ooze

Void areas

Logged by: Patterson & Barraclough

A-68

GENERAL SUMMARY FORM

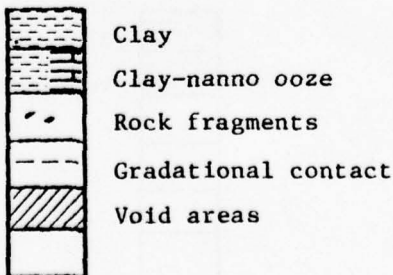


Core No. KK72 PCOD 31 Sta. 45  
 Lat. 23°33.64'S  
 Location Long. 115°40.98'W

GENERAL MEGASCOPIE DESCRIPTION

0-18cm: Dark reddish brown ( $5 \text{ yr}^{2.5}/2$ ) rad bearing nanno rich clay; 70% clay, 25% nanno, 2% rad, 3% aniso min. 18-168cm: Dark brown ( $10 \text{ yr}^3/3$ ) to very dark grayish brown ( $10 \text{ yr}^3/2$ ) to dark yellowish brown ( $10 \text{ yr}^4/4$ ) foram bearing clay nanno ooze; 50-63% nanno, 30-43% clay, 5-10% foram (rad trace). 158-160cm: Partial void with mud coated black volcanic rock fragments up to 4cm across contained within.

AGE: Quaternary



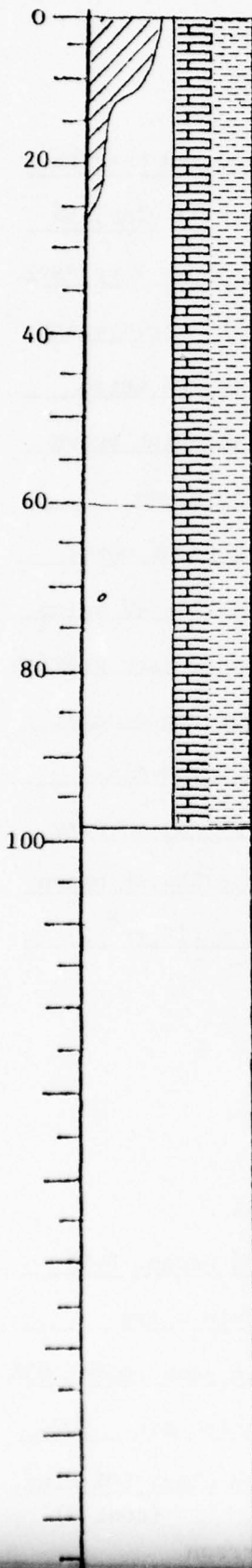
Logged by: Patterson & Au



A-69

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 FFC58 Sta. 48

Lat. 23°31.09'S

Location Long. 115°58.71'W

GENERAL MEGASCOPIC DESCRIPTION

0-98cm: Very dark grayish brown ( $10 \text{ yr}^3/2$ ) to  
dark brown ( $10 \text{ yr}^3/3$ ) foram bearing nanno clay;  
50% clay, 48% nanno, 2% foram. There is some  
very faint mottling in the lower half of the  
core with only one distinguishable mottle,  
( $10 \text{ yr}^3/2$ ) at 72cm depth. 0-30cm: Partial void.  
0-10cm: Sediment soupy and disturbed.

AGE: Quaternary



Nanno-clay

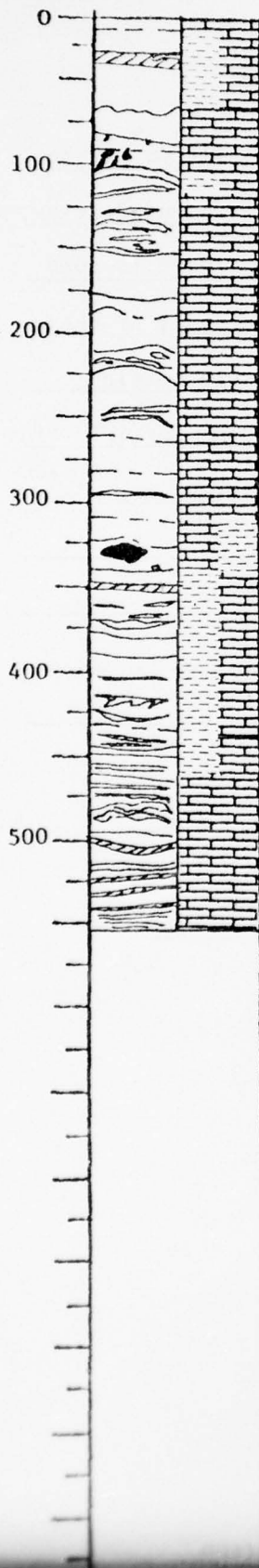
Mottling

Gradational contact

Void area

Logged by: Patterson

## GENERAL SUMMARY FORM

Depth  
(cm)Core No. KK72 PCOD 32 Sta. 49Lat. 07°38.57'SLocation Long. 161°35.11'WGENERAL MEGASCOPIC DESCRIPTION

0-5cm: Brown (10 yr<sup>4</sup>/3) foram and rad bearing clay rich nanno ooze; 73% nanno, 17% clay, 5% rad, 2% foram, 3% aniso min. 5-65cm: Very dark grayish brown (10 yr<sup>3</sup>/2) rad bearing clay-nanno ooze; 45% nanno, 45% clay, 8% rad, 2% aniso min (foram trace). 65-102cm: Yellowish brown (10 yr<sup>5</sup>/4) to white (10 yr<sup>8</sup>/2) to brown (10 yr<sup>4</sup>/3) rad and foram bearing nanno ooze; 42-65% nanno, 5-8% foram, 5% rad, 25-42% aniso min (sanidinite?). 102-110cm: Very dark grayish brown (10 yr<sup>3</sup>/2) rad bearing clay nanno ooze; 44% nanno, 44% clay, 5% rad, 7% aniso min. 110-291cm: Yellowish brown (10 yr<sup>5</sup>/4) to very pale brown (10 yr<sup>8</sup>/3) to light yellowish brown (10 yr<sup>6</sup>/4) to (10 yr<sup>8</sup>/4) to white (10 yr<sup>8</sup>/2)



Nanno ooze

Clay-nanno ooze

Nanno clay

Mottling

Parallel layering

Rock fragments-Mn nodules

clay bearing nanno ooze; 93-100% nanno, 0-5% clay (rad trace). 291-302cm: Pale olive (5 y<sup>6</sup>/4) foram bearing clay rich nanno ooze; 65% nanno, 25% clay, 5% foram, 5% aniso min. 302-336cm: Pale olive (5 y<sup>6</sup>/3) nanno clay; 50% clay, (cont'd)

Logged by: Patterson

## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 32 Sta. 49 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

45% nanno, 5% iso. min. 336-460cm: Pale yellow  
 (5 y<sup>7</sup>/4) to pale olive (5 y<sup>6</sup>/3) to olive (5 y<sup>4</sup>/3)  
 to light olive gray (5 y<sup>6</sup>/2) rad bearing clay  
 nanno ooze; 55-77% nanno, 20-40% clay, 2-5% rad,  
 0-3% iso. min, 0-5% aniso min. 460-495cm:  
 Olive (5 y<sup>5</sup>/3) to olive gray (5 y<sup>4</sup>/2) rad bearing  
 foram and clay rich nanno ooze; 55-60% nanno,  
 20-25% clay, 10-15% foram, 0-5% rad. 2-10%  
 aniso min (opaque min trace). 493-552cm: Light  
 olive gray (5 y<sup>6</sup>/2) to olive (5 y<sup>5</sup>/3) rad and  
 foram bearing clay rich nanno ooze; 60-70%  
 nanno, 25-30% clay, 2-3% rad, 2-3% aniso min.  
 Very slight to heavy mottling scattered through-  
 out the core; very dark grayish brown (10 yr<sup>3</sup>/2),  
 very pale brown (10 yr<sup>7</sup>/4), light yellowish brown  
 (10 yr<sup>6</sup>/4), yellowish brown (10 yr<sup>5</sup>/4),  
 white (10 yr<sup>8</sup>/1), (10 yr<sup>8</sup>/3), pale brown  
 (10 yr<sup>6</sup>/3), light olive gray (5 y<sup>6</sup>/2),  
 pale yellow (5 y<sup>8</sup>/3), yellow (2.5 y<sup>7</sup>/8),  
 olive (5 y<sup>5</sup>/6). Parallel layering at  
 102-110cm, very dark grayish brown (10 yr<sup>3</sup>/2);  
 471-475cm, pale olive (5 y<sup>6</sup>/3); 517-519cm, olive  
 (5 y<sup>5</sup>/4); 525-552cm, gray (5 y<sup>5</sup>/1). Black rock  
 fragment approx. 4cm diameter. White rock frag-  
 ment approx. 1.5cm length found at 79cm.

(cont'd)

Logged by: Patterson

GENERAL SUMMARY FORM

Core No. KK72 PCOD 32 Sta. 49 (cont'd)

Location

### GENERAL MEGASCOPIIC DESCRIPTION

Yellow-green sandstone fragment found at 84-88cm.

6cm long Mn nodule found at 93-97cm. 6cm long

light brown rock found at 99-105cm. 2.3cm red

rock found at 97-99cm. Flattened black and

brown rock with green sand grains found at 99-

105cm. 1cm black rock fragment found at 155-

168cm. Large chunk of sandstone, green with

yellow-orange stain found at 323-328cm depth.

26-39cm: Partial void. 169-171cm, 348-350cm,

434-435cm: Void. Continuous microlayering of

(3 y<sup>5</sup>/1) from 525-552cm depth.

AGE: Pliocene (N19)

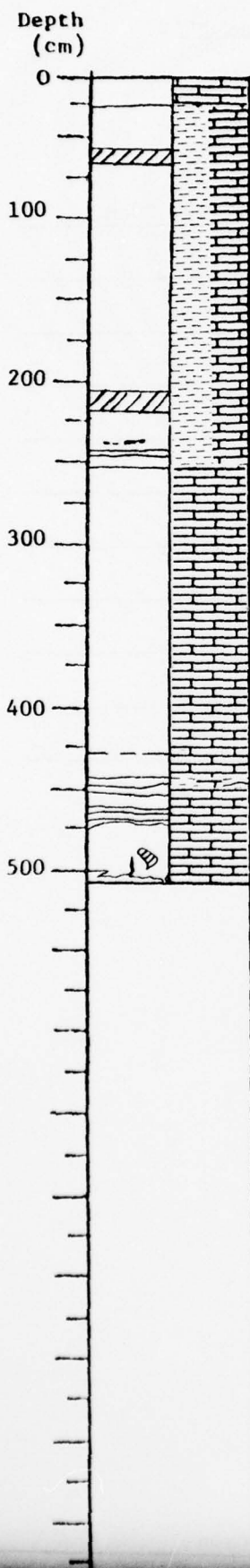
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Logged by: Patterson



A-73

## GENERAL SUMMARY FORM

Core No. KK72 PCOD 33 Sta. 50Lat. 07°26.98'SLocation Long. 162°12.25'WGENERAL MEGASCOPIC DESCRIPTION

0-27cm: Brown (10 yr<sup>5</sup>/3) foram and rad bearing clay rich nanno ooze; 70% nanno, 15% clay, 7% rad, 5% foram, 3% aniso min. 27-253cm: Diatom and foram bearing rad rich clay-nanno ooze; 40-55% nanno, 28-40% clay, 10-15% rad, 5% foram, 1-2% diatom (sponge trace), 2-3% aniso min. 253-430cm: Very pale yellow (10 yr<sup>8</sup>/3) rad, clay and foram bearing nanno ooze; 80-90% nanno, 5-8% foram, 3-7% clay, 2-5% rad. 430-440cm: White (10 yr<sup>8</sup>/2) foram bearing rad rich nanno ooze; 80% nanno, 15% rad, 5% foram. 440-505cm: Clay, foram, and rad bearing nanno ooze; 88% nanno, 5% rad, 5% foram. Very slight to moderately heavy mottling where indicated; brown (10 yr<sup>5</sup>/3), white (10 yr<sup>8</sup>/1), very dark grayish



Nanno ooze

Clay-nanno ooze

Clay-nanno-rad ooze

Mottling

Parallel layering

Void areas

brown (10 yr<sup>3</sup>/2). Parallel layering at 244-245cm; white (10 yr<sup>8</sup>/2) rad and foram bearing nanno ooze; 440-446cm, very dark grayish brown (10 yr<sup>3</sup>/2) clay, nanno, rad ooze; 446-458cm, brown (10 yr<sup>4</sup>/3) foram and rad bearing clay

(cont'd)

Logged by: Patterson

## GENERAL SUMMARY FORM

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**Location** \_\_\_\_\_

rich nanno ooze; 60-66cm, void; 495-500cm,  
partial void.

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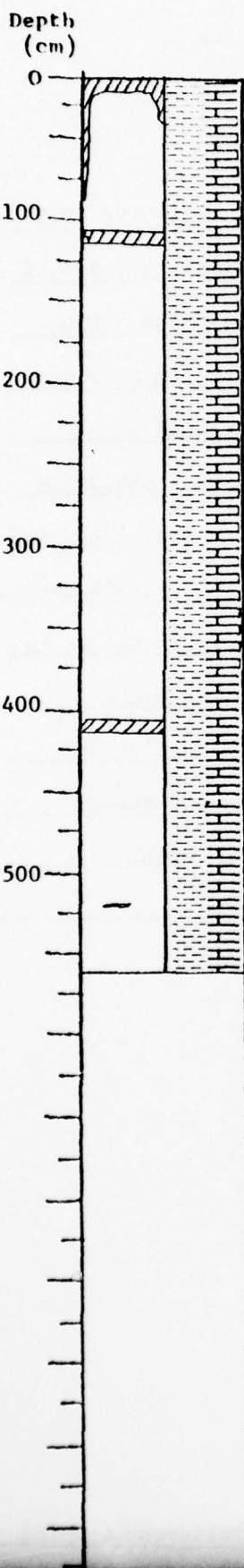
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Logged by: Patterson

A-75

GENERAL SUMMARY FORM



Core No. KK72 PCOD 34 Sta. 51

Lat. 05°37.26'S

Location Long. 167°28.50'W

GENERAL MEGASCOPIC DESCRIPTION

0-557cm: Brown (10 yr<sup>4</sup>/3) foram bearing rad  
rich clay-nanno ooze; 40-58% nanno, 30-38% clay,  
10-20% rad, 2% foram. Very slight mottle at  
544cm depth; color brown (7.5 yr<sup>4</sup>/4). Partial  
void at 0-84cm. Void at 104-109, 406-412cm  
depth.

AGE: Quaternary(?)



Clay-nannofossil ooze

Mottling

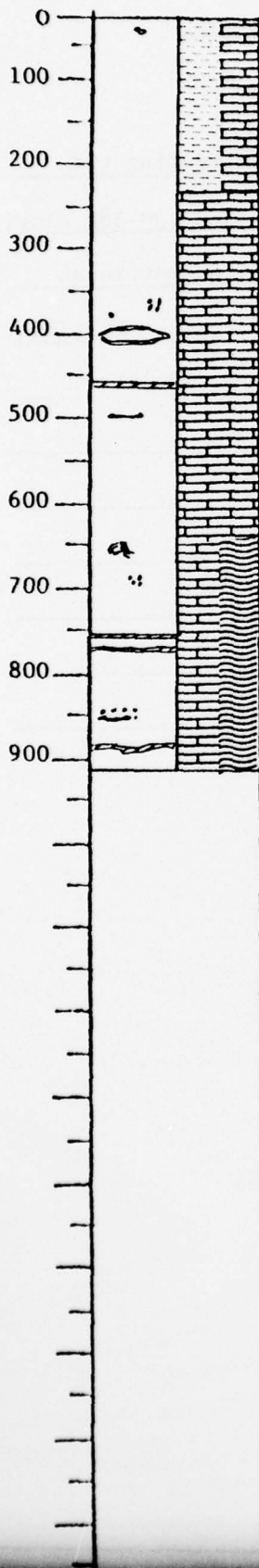
Void areas

Logged by: Au

A-76

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PCOD 35 Sta. 52

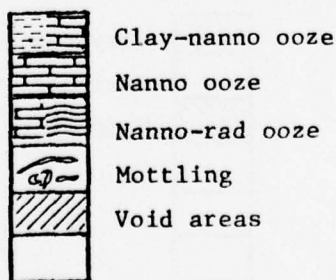
Lat. 02°37.64'S

Location Long. 176°52.44'W

GENERAL MEGASCOPIC DESCRIPTION

0-250cm: Dark brown ( $10 \text{ yr}^3/3$ ) to ( $10 \text{ yr}^3/2.5$ )  
foram bearing rad rich clay-nanno ooze; 50-55%  
nanno, 30-35% clay, 13% rad, 2% foram. 250-  
650cm: Dark brown ( $10 \text{ yr}^3/2.5$ ) foram bearing  
rad and clay rich nanno ooze; 55-60% nanno,  
20-25% clay, 13-20% rad, 2% foram. 650-906cm:  
Dark brown ( $10 \text{ yr}^3/3$ ) sponge and diatom bearing  
clay rich nanno-rad ooze; 50% rad, 25-30% nanno,  
10% clay, 5-8% diatom, 3-7% sponge. Slight to  
moderate mottling where indicated; brown  
( $10 \text{ yr}^4/3$ ) to very pale brown ( $10 \text{ yr}^7/4$ ) to  
light gray ( $10 \text{ yr}^7/2$ ). Void at 453-456cm,  
755-758cm, 763-764cm, 881-884cm depth.

AGE: Lower Pliocene

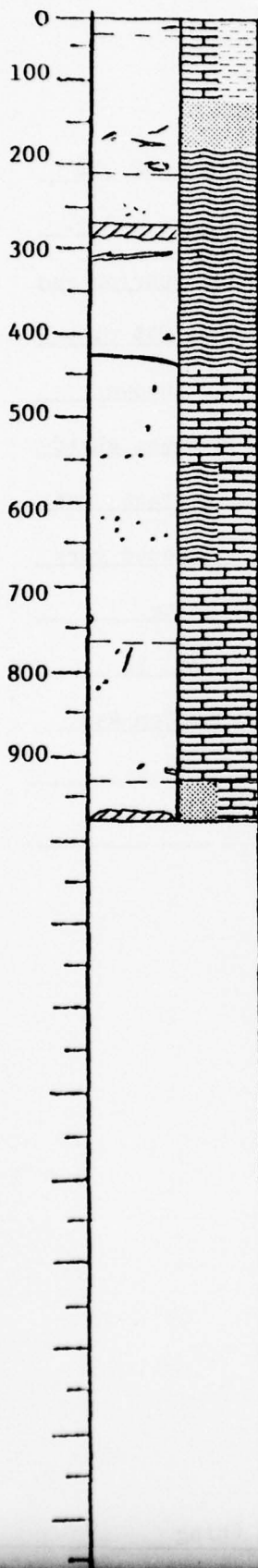


Logged by: Au, Patterson & Ching



A-77

## GENERAL SUMMARY FORM

Depth  
(cm)Core No. KK72 PCOD 36 Sta. 53Lat. 02°24.60'SLocation Long. 177°44.18'WGENERAL MEGASCOPIC DESCRIPTION

0-124cm: Dark brown ( $10 \text{ yr}^3/3$ ) to very dark grayish brown ( $10 \text{ yr}^3/2$ ) rad bearing nanno clay; 45-50% clay, 45% nanno, 3-5% rad, 2-5% aniso min. 124-180cm: Very dark dusky red ( $2.5 \text{ yr}^2/1$ ) sponge and rad bearing nanno and clay rich glass shard ooze; 55-65% glass shards, 15% clay, 10-15% nannos, 7-10% rad, 3-5% sponge. 180-421cm: Very dark dusky red ( $2.5 \text{ yr}^2/1$ ) to dusky red ( $2.5 \text{ yr}^3/2$ ) to dark brown ( $7.5 \text{ yr}^3/2$ ) sponge and clay bearing nanno rich rad ooze; 70-80% rad, 10-15% nanno, 5-10% clay, 5% sponge. 421-525cm: Dark grayish brown ( $10 \text{ yr}^4/2$ ) sponge bearing rad and clay rich nanno ooze; 50-60% nanno, 20-25% clay, 17-22% rad, 3% sponge. 525-669cm: Dark brown ( $10 \text{ yr}^4/3$ ) sponge bearing clay



Nanno-clay

Glass shard ooze

Rad ooze

Nanno ooze

Rad-nanno ooze

Mottling

rich rad-nanno ooze; 45-55% nanno, 22-32% rad, 20% clay, 3% sponge. 770-810cm: Dark brown ( $10 \text{ yr}^4/3$ ) rad bearing clay and glass shard rich nanno ooze; 50% nanno, 25% glass, 20% clay, 5% rad. 669-770cm: Dark brown ( $10 \text{ yr}^4/3$ ) sponge

Logged by: Au and Ching (cont'd)

### GENERAL SUMMARY FORM

Core No. KK72 PCOD 36 Sta. 53 (cont'd)

Location \_\_\_\_\_

### GENERAL MEGASCOPIC DESCRIPTION

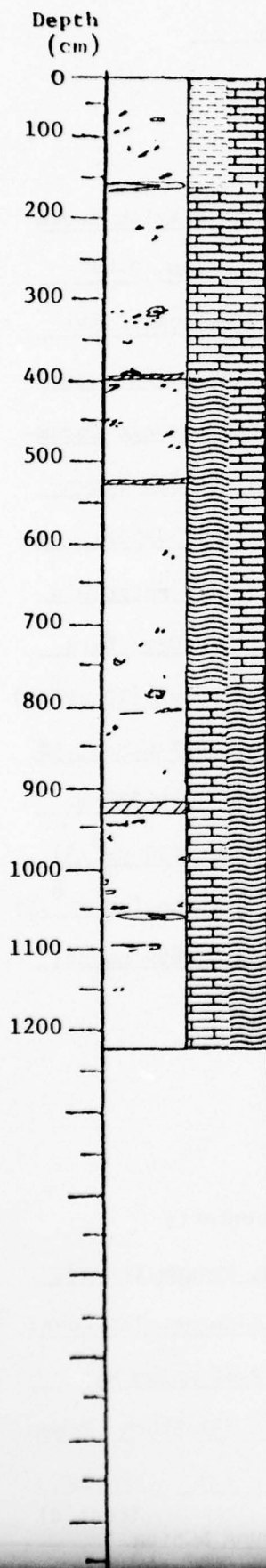
bearing rad and clay rich nanno ooze; 52-55%  
nanno, 25% clay, 17-20% rad, 3% sponge. 810-  
920cm: Dark brown (10 yr<sup>3</sup>/3) sponge bearing rad  
and clay rich nanno ooze; 55% nanno, 25% clay,  
17% rad, 3% sponge. 920-970cm: Dark brown  
(10 yr<sup>3</sup>/3) to (10 yr<sup>3</sup>/2) clay rich glass shard-  
nanno ooze; 40% nanno, 35% volcanic glass, 25%  
clay. Slight to heavy mottling scattered very  
sparsely throughout core; colors: white  
(10 yr<sup>8</sup>/2); very pale brown (10 yr<sup>7</sup>/3) to  
(10 yr<sup>7</sup>/4), brown (10 yr<sup>5</sup>/3). 273-282cm and  
964-970cm: Void.

AGE: Lower Miocene

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Logged by: Au and Ching

## GENERAL SUMMARY FORM

Core No. KK72 PCOD 37 Sta. 54Lat. 02°09.08'SLocation Long. 178°58.05'WGENERAL MEGASCOPIC DESCRIPTION

0-165cm: Dark brown ( $7.5 \text{ yr}^3/2$ ) rad bearing clay-nanno ooze; 55% nanno, 40% clay, 5% rad. 165-383cm: Dark brown ( $10 \text{ yr}^4/3$ ) to ( $7.5 \text{ yr}^3/3$ ) foram-sponge-diatom-clay bearing rad rich nanno ooze; 60-65% nanno, 17-20% rad, 5-10% clay, 5% diatom, 3% sponge, 2-5% foram. 383-775cm: Dark brown ( $7.5 \text{ yr}^3/2$ ) sponge and diatom bearing clay rich rad-nanno ooze; 40-45% nanno, 35% rad, 10% clay, 5-9% diatom, 3-6% sponge. 775-928cm: Dark brown ( $7.5 \text{ yr}^3/2$ ) sponge and diatom bearing clay rich nanno-rad ooze; 40% rad, 35% nanno, 15% clay, 7-8% diatom, 2-3% sponge. 928-1225cm: Dark brown ( $7.5 \text{ yr}^3/2$ ) sponge-diatom-clay bearing nanno-rad ooze; 45-55% rad, 35% nanno, 8-10% clay, 7-9% diatom, 3% sponge. Very slight to moderate



Clay-nanno ooze

Nanno ooze

Rad-nanno ooze

Nanno-rad ooze

Mottling

Void areas

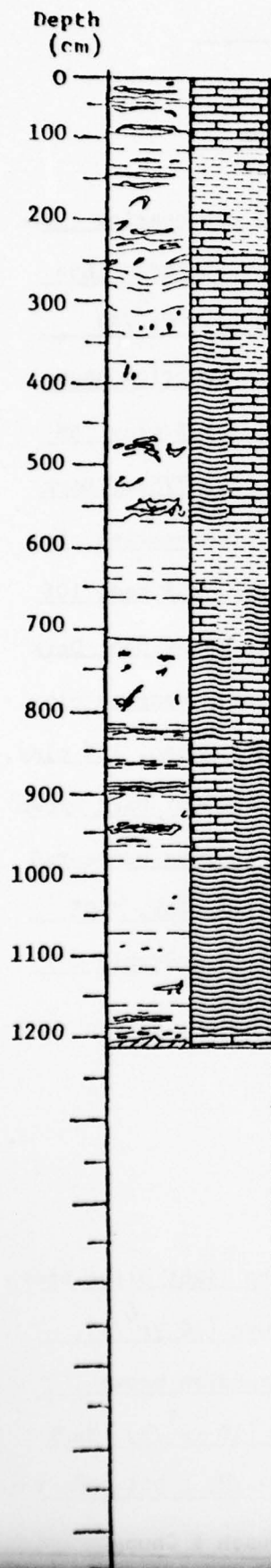
mottling where indicated; colors light olive brown ( $2.5 \text{ yr}^5/4$ ), light yellowish brown ( $10 \text{ yr}^6/4$ ), dark brown ( $10 \text{ yr}^4/3.5$ ), dark reddish brown ( $5 \text{ yr}^{2.5}/1.5$ ), very pale brown ( $10 \text{ yr}^7/4$ ), dark yellowish brown ( $10 \text{ yr}^4/4$ ). 383-387 & 921-928: Void.

AGE: Lower Miocene

Logged by: Au, Busch & Chung

A-80

GENERAL SUMMARY FORM



Core No. KK72 PCOD 38 Sta. 55  
 Lat. 05°23.50'N  
 Location Long. 164°24.50'W

GENERAL MEGASCOPIC DESCRIPTION

0-108cm: Light gray (10 yr<sup>7</sup>/2) to grayish brown (10 yr<sup>4.5</sup>/2) nanno ooze; 93-97% nanno, 2-4% aniso min (clay-rad trace). 108-131cm: Light gray (10 yr<sup>6.5</sup>/2) rad bearing clay-nanno ooze; 47-57% nanno, 35-40% clay, 5% rad (sponge-foram diatom trace). 131-190cm: Dark grayish brown (10 yr<sup>4</sup>/2) rad and nanno rich clay; 50-55% clay, 21-22% nanno, 20-21% rad, 4-7% aniso min (diatom-sponge-foram trace). 190-240cm: Dark grayish brown (10 yr<sup>4</sup>/2) to dark brown (10 yr<sup>3</sup>/3) rad bearing nanno clay; 50% clay, 40% nanno, 5% rad, 5% aniso min (diatom trace). 240-335cm: Brownish yellow (10 yr<sup>6</sup>/6) to brown (10 yr<sup>5</sup>/3) to very pale brown (10 yr<sup>7</sup>/3) to white (10 yr<sup>8</sup>/1) rad and clay bearing nanno ooze; 87-88% nanno,



Nanno ooze  
 Clay  
 Rad ooze  
 Mottling  
 Parallel layering  
 Sharp and gradational contacts

5% clay, 5% rad (foram, diatom, sponge trace). 335-381cm: Brown (10 yr<sup>4</sup>/3) rad-nanno-clay ooze; 35% clay, 30% nanno, 28% rad, 2-6% aniso min (foram, sponge, diatom trace). 381-580cm: Brown (10 yr<sup>4</sup>/3) to pale brown (10 yr<sup>6</sup>/3) to grayish

(cont'd)

Logged by: Au, Chung & Ching



## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 38 Sta. 55 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

brown (10 yr<sup>4.5</sup>/2) clay rich rad-nanno ooze;  
37-42% nanno, 32-40% rad, 15-25% clay, 3-8%  
aniso min (diatom, foram trace). 580-632cm:  
Dark grayish brown (10 yr<sup>4</sup>/2) nanno and rad  
rich clay (sponge-diatom trace); 40% clay, 26%  
rad, 26% nanno, 7% aniso min, trace diatom,  
sponge. 632-709cm: Brown (10 yr<sup>5</sup>/3) to grayish  
brown (10 yr<sup>4.5</sup>/2) nanno-clay-rad ooze (sponge-  
diatom trace); 32-34% rad, 30% clay, 28-30%  
nanno, 5-7% aniso min (diatom, sponge, rad trace).  
709-820cm: Brown (10 yr<sup>5.5</sup>/2.5) clay rich rad-  
nanno ooze (diatom trace); 40-43% nanno, 37-40%  
rad, 15% clay, 2-7% aniso min (diatom, foram  
trace). 820-986cm: Brown (10 yr<sup>4.5</sup>/3) to white  
(10 yr<sup>7.5</sup>/3) to dark grayish brown (10 yr<sup>4</sup>/2) to  
grayish brown (10 yr<sup>5</sup>/2) clay rich nanno-  
rad ooze; 40-45% rad, 35-40% nanno, 10-  
15% clay, 4-9% aniso min, 1-2% diatom  
(sponge trace). 986-1181cm: Dark grayish  
brown (10 yr<sup>4</sup>/2) diatom bearing nanno and  
clay rich rad ooze (diatom trace); 44-65% rad,  
20-35% clay, 15-20% nanno, 0-5% diatom (aniso  
min trace). 1181-1209cm: White (2.5 yr<sup>7.5</sup>/2)  
clay bearing rad rich nanno ooze; 70% nanno, 24%  
rad, 5% clay (aniso min, diatom trace). Very  
(cont'd)

Logged by: Au, Chung & Ching

A-82  
GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 38 Sta. 55 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

slight to very heavy mottling scattered through-  
out core; colors: brown (10 yr<sup>5</sup>/3), white  
(10 yr<sup>8</sup>/1), light brownish gray (10 yr<sup>6</sup>/2),  
very pale brown (10 yr<sup>7</sup>/4), dark brown (10 yr<sup>3</sup>/3).

Parallel layering at 886-888cm depth; very pale  
brown (10 yr<sup>7.5</sup>/3). Void at 1202-1209cm depth.

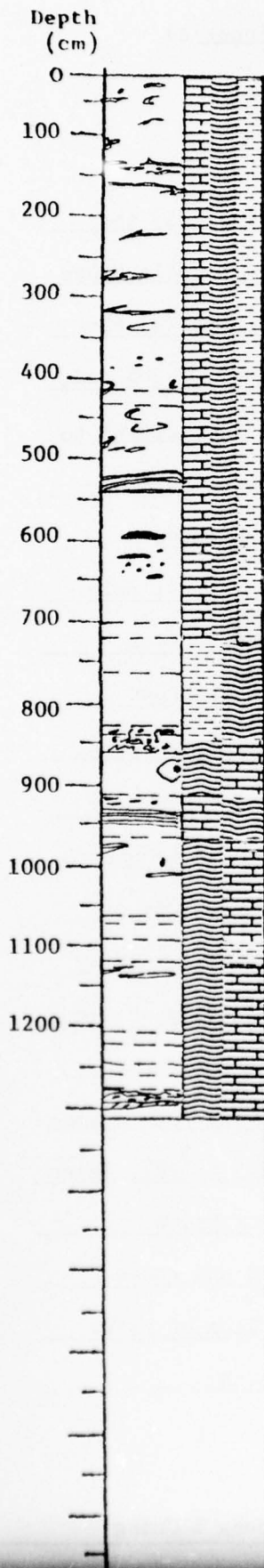
AGE: Upper Miocene-Lower Pliocene

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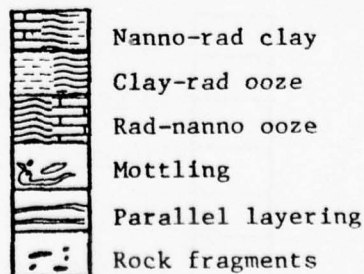
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Logged by: Au, Chung & Ching

## GENERAL SUMMARY FORM

Core No. KK72 PCOD 39 Sta. 56Lat. 08°30.83'NLocation Long. 166°51.01'WGENERAL MEGASCOPIC DESCRIPTION

0-720cm: Dark brown ( $7.5 \text{ yr}^{3.5/2}$ ) to dark grayish brown ( $10 \text{ yr}^{4/2}$ ) to brown ( $10 \text{ yr}^{4/3}$ ) to very dark brown ( $7.5 \text{ yr}^{2/2}$ ) to dark brown ( $7.5 \text{ yr}^{3/4}$ ) nanno-rad clay; 33-55% clay, 25-40% rad, 20-33% nanno (diatom, sponge, aniso min trace). 720-820cm: Dark brown ( $7.5 \text{ yr}^{3.5/2}$ ) to ( $7.5 \text{ yr}^{3/4}$ ) nanno bearing clay-rad ooze; 48-50% rad, 40-45% clay, 5-10% nanno (aniso min, sponge trace). 820-911cm: Dark brown ( $7.5 \text{ yr}^{3/2}$ ) to brown ( $7.5 \text{ yr}^{5/3}$ ) clay rich rad-nanno ooze; 53-65% nanno, 25-35% rad, 10-15% clay (aniso min trace). 911-957cm: Brown ( $7.5 \text{ yr}^{4/3}$ ) clay rich nanno-rad ooze; 45-50% rad, 35-40% nanno, 15% clay (aniso min trace). 957-1092cm: Grayish brown ( $10 \text{ yr}^{4.5/2}$ ) to brown ( $10 \text{ yr}^{4.5/3}$ ) to



( $10 \text{ yr}^{4/3}$ ) clay rich rad-nanno ooze; 40-65% nanno, 25-40% rad, 10-20% clay (aniso min, sponge trace). 1092-1116cm: Very dark grayish brown ( $10 \text{ yr}^{3/2}$ ) rad clay; 50% clay, 50% rad (nanno, sponge trace). 1116-1315cm: Yellowish

(cont'd)

Logged by: Au, Chung & Ching

AD-A038 181

HAWAII INST OF GEOPHYSICS HONOLULU

F/G 8/10

SEDIMENT CORE DESCRIPTIONS: R/V KANA KEOKI 1972 CRUISE, EASTERN--ETC(U)

JUN 76 J E ANDREWS, J A FOREMAN

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## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 39 Sta. 56 (cont'd)

Location \_\_\_\_\_

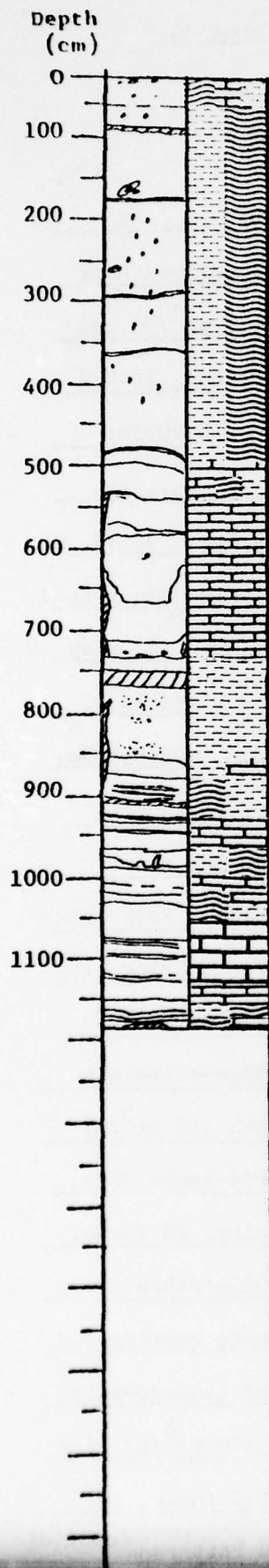
GENERAL MEGASCOPIC DESCRIPTION

brown (10 yr<sup>5</sup>/4) to brown (7.5 yr<sup>5.5</sup>/5) to  
light yellowish brown (10 yr<sup>6</sup>/4) to pale brown  
(10 yr<sup>6</sup>/3) to very pale brown (10 yr<sup>7</sup>/3) clay  
rich rad-nanno ooze; 55-65% nanno, 25-30% rad,  
10-15% clay (aniso min trace). Very slight to  
heavy mottling scattered throughout core as  
indicated; colors: light yellowish brown  
(10 yr<sup>6</sup>/4); very pale brown (10 yr<sup>8</sup>/3); pale  
brown (10 yr<sup>6</sup>/3); white (10 yr<sup>8</sup>/2); brown  
(7.5 yr<sup>5</sup>/3); pink (7.5 yr<sup>8</sup>/4); dark brown  
(7.5 yr<sup>3</sup>/2) to (7.5 yr<sup>3.5</sup>/2); brownish yellow  
(10 yr<sup>6</sup>/6). Moderate mottle at 661-760cm of  
very pale brown (10 yr<sup>7</sup>/4) clay bearing nanno-  
rad ooze; moderate mottle at 1106-1110cm of  
brownish yellow (10 yr<sup>6</sup>/6) nanno-clay bearing  
rad ooze. Between 528-539cm there are  
three 1cm-thick layers of dark brown  
(10 yr<sup>3</sup>/2). From 938-950cm, four 0.5cm-  
thick layers of brown (7.5 yr<sup>3</sup>/2). Layer  
at 1139-1140cm, color: dark brown  
(7.5 yr<sup>3.5</sup>/2). Consolidated mud and rocks  
present from 618-640cm; composition of rocks  
is 50% nanno, 50% amorphous silica.

AGE: Lower Oligocene

Logged by: Au, Chung & Ching

## GENERAL SUMMARY FORM

Core No. KK72 PCOD 40 Sta. 57Lat. 08°27.88'NLocation Long. 170°07.50'WGENERAL MEGASCOPIC DESCRIPTION

0-50cm: Very dark grayish brown ( $10 \text{ yr}^3/2$ ) rad-nanno-clay ooze; 45% clay, 30% nanno, 25% rad.

50-482cm: Dark brown ( $10 \text{ yr}^3/3$ ) nanno rich clay-rad ooze; 50-61% rad, 25-35% clay, 12-15% nanno (aniso min trace). 482-498cm: White

( $10 \text{ yr}^8/1$ ) rad and clay bearing nanno ooze:

83-88% nanno, 7-10% clay, 2-4% aniso min, 1-3% rad.

498-529cm: Dark brown ( $10 \text{ yr}^3/3$ ) nanno-rad clay; 37% clay, 36% rad, 27% nanno, 2%

aniso min. 529-710cm: White ( $10 \text{ yr}^8/2$ ) and ( $10 \text{ yr}^8/1$ ) clay and rad bearing nanno ooze; 86-

92% nanno, 3-6% clay, 3-4% aniso min, 1-4% rad.

710-723cm: Light yellowish brown ( $10 \text{ yr}^6/4$ )

clay rich nanno ooze; 80% nanno, 15% clay, 3%

aniso min (rad-foram trace). 723-744cm: Dark

Nanno ooze

Clay

Rad ooze

Foram ooze

Parallel layering

Mottling

brown ( $10 \text{ yr}^3/3$ ) rad and nanno bearing clay;

89% clay, 5% nanno, 5% rad (aniso min trace).

744-770cm: Dark brown ( $10 \text{ yr}^3/3$ ) nanno bearing

rad rich clay; 70% clay, 25% rad, 5% nanno (aniso

min trace). 770-850cm: White ( $10 \text{ yr}^8/1$ ) clay

Logged by: Am and Patterson (cont'd)

## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 40 Sta. 57 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

bearing nanno ooze; 92% nanno, 4% clay, 3% aniso min (rad-foram trace). 850-873cm: Dark brown (10 yr<sup>3</sup>/3) to light gray (10 yr<sup>7</sup>/2) rad bearing clay-nanno ooze; 48-75% nanno, 20-47% clay, 1-4% aniso min, 1-3% rad. 873-909cm: Dark brown (10 yr<sup>3</sup>/3) to very dark grayish brown (10 yr<sup>3</sup>/2) nanno rich rad-clay; 49-51% clay, 38-40% rad, 10-11% nanno (aniso min trace). 909-959cm: White (10 yr<sup>8</sup>/0) foram, rad and clay bearing nanno ooze; 80-89% nanno, 4-10% clay, 3-5% rad, 0-5% foram, 2% aniso min. 959-988cm: Very dark grayish brown (10 yr<sup>3</sup>/2) nanno rich clay-rad ooze; 50% rad, 38% clay, 12% nanno (foram-aniso min trace). 988-1014cm: Very pale brown (10 yr<sup>7</sup>/3) to (10 yr<sup>8</sup>/3) rad bearing clay

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|  | rich nanno ooze; 81-85% nanno, 10-12%                        |
|  | clay, 3-6% rad (foram-sponge-aniso min                       |
|  | trace). 1014-1023cm: Brown (10 yr <sup>5</sup> /3)           |
|  | foram bearing clay rich rad-nanno ooze;                      |
|  | 43% nanno, 38% rad, 15% clay, 2% foram,                      |
|  | 2% aniso min (sponge trace). 1023-1044cm: Very               |
|  | dark grayish brown (10 yr <sup>3</sup> /2) nanno bearing rad |
|  | clay; 54% clay, 40% rad, 5% nanno (sponge-aniso              |
|  | min trace). 1044-1128cm: White (10 yr <sup>8</sup> /0) clay  |
|  | bearing nanno rich foram ooze; 85% foram, 10%                |

Logged by: Au and Patterson (cont'd)



A-87

## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 40 Sta. 57 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTIONnanno, 3% clay, 2% aniso min (rad trace).1128-1150cm: White (10 yr<sup>8</sup>/2) foram and claybearing rad rich nanno ooze; 66% nanno, 25%rad, 7% clay, 2% foram (aniso min trace).1150-1169cm: Very dark grayish brown (10 yr<sup>3</sup>/2)nanno bearing clay-rad ooze; 49% rad, 44% clay,5% nanno, 2% aniso min. 1169-1188cm: Palebrown (10 yr<sup>6</sup>/3) to dark brown (10 yr<sup>4</sup>/3) clayrich rad-nanno ooze; 38-62% nanno, 25-38% rad,12-13% clay, 1% aniso min. Very slight toheavy mottling scattered throughout core; yellow(10 yr<sup>7</sup>/6); brown (10 yr<sup>4</sup>/3); very dark brown(10 yr<sup>2.5</sup>/2); black (10 yr<sup>2.5</sup>/1); yellowishbrown (10 yr<sup>5</sup>/4); dark brown (10 yr<sup>3</sup>/3); white(10 yr<sup>8</sup>/2); brownish yellow (10 yr<sup>6</sup>/6); palebrown (10 yr<sup>6</sup>/3); very dark grayishbrown (10 yr<sup>3</sup>/2); very pale brown (10 yr<sup>7</sup>/3).Mottle at 708cm of rad bearing clay-nannoooze. Parallel layering at 174-177cm,282-284 and 354-355cm depth; coarsegrained, dark brown (10 yr<sup>3.5</sup>/3); 482-484cm,brownish yellow (10 yr<sup>6</sup>/6) rad bearing clay richnanno ooze; 914-918cm, brown (10 yr<sup>4</sup>/3) clay-rad-nanno ooze; 929-933cm, pale brown (10 yr<sup>6</sup>/3);1076-1086cm, white (10 yr<sup>8</sup>/2) clay-rad bearing

(cont'd)

Logged by: Au and Patterson



A-88

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 40 Sta. 57 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

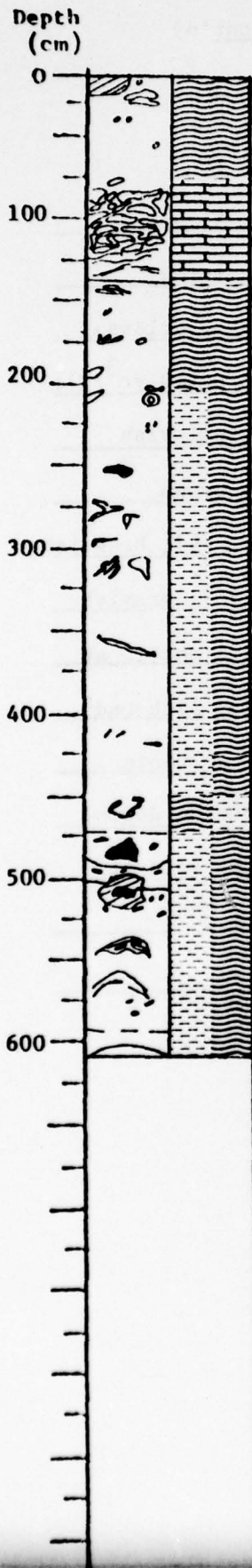
nanno ooze; 1091-1093cm (10 yr<sup>8</sup>/2); 1097.5-  
1098cm (10 yr<sup>8</sup>/2); 1130-1131cm (10 yr<sup>8</sup>/0).

Partial voids at 536-564, 665-723, 744-757,  
773-850, 894-900cm.

AGE: Lower Miocene

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## GENERAL SUMMARY FORM

Core No. KK72 PCOD 41 Sta. 58Lat. 7°37.30'NLocation Long. 168°22.26'WGENERAL MEGASCOPIC DESCRIPTION

0-70cm: Dark brown ( $10 \text{ yr}^3/3$ ) diatom bearing nanno and clay rich rad ooze; 61-75% rad, 10-20% clay, 10% nanno, 4-5% diatom, 0-7% aniso

min. 70-134cm: Dark yellowish brown ( $10 \text{ yr}^4/4$ ) diatom bearing clay and rad rich nanno ooze;

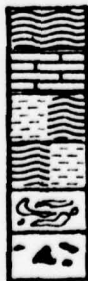
56-60% nanno, 25% rad, 12-14% clay, 5-6% aniso

min, 1-2% diatom. 134-200cm: Dark brown ( $10 \text{ yr}^3/3$ ) nanno bearing clay rich rad ooze;

74-77% rad, 12-15% clay, 2-8% nanno (diatom, sponge trace). 200-450cm: Dark brown ( $10 \text{ yr}^3/3$ )

diatom and nanno bearing clay-rad ooze; 54-62% rad, 30-40% clay, 2-5% nanno, 1-3% diatom

(sponge-aniso min trace). 450-470cm: Dark yellowish brown ( $10 \text{ yr}^4/4$ ) rad clay; 59% clay, 39% rad (nanno-diatom-sponge-aniso min trace).



Rad ooze

Nanno ooze

Clay-rad ooze

Rad-clay

Mottling

Mn nodules-rock fragments

470-600cm: Very dark grayish brown ( $10 \text{ yr}^3/2$ ) to dark brown ( $10 \text{ yr}^3/3$ ) to very dark brown

( $10 \text{ yr}^{2.5}/2$ ) clay-rad ooze; 50-60% rad, 40-50% clay (nanno-aniso min trace). 600-606cm:

Brownish yellow ( $10 \text{ yr}^6/6$ ) nanno bearing clay

Logged by: Au (cont'd)

A-90

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 41 Sta. 58 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

rich rad ooze; 86% rad, 10% clay, 4% nanno.

Very slight to heavy mottling scattered

throughout the core where indicated; colors:

olive yellow (2.5 y<sup>6</sup>/6); dark brown (10 yr<sup>3</sup>/3);

dark yellowish brown (10 yr<sup>4</sup>/4); yellowish

brown (10 yr<sup>5</sup>/4); light yellowish brown

(10 yr<sup>6</sup>/4); very pale brown (10 yr<sup>7</sup>/4); brownish

yellow (10 yr<sup>6</sup>/6); yellow (10 yr<sup>7</sup>/6); grayish

brown (10 yr<sup>5</sup>/2). Slight to medium mottle at

534-584cm of yellow (10 yr<sup>7</sup>/6) clay rich rad

ooze. Mn nodule at 254cm depth. Volcanic

basalt fragments at 481-487 and 500 cm depth.

Ash staining at 478-510cm. Partial void at

0-7 and 493-503cm depth.

AGE: Quaternary(?)

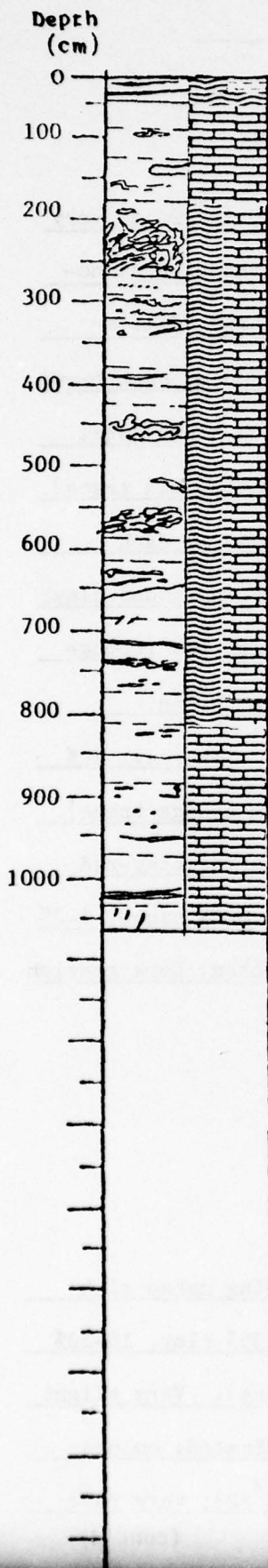
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Logged by: Au



A-91

## GENERAL SUMMARY FORM

Core No. KK72 PCOD 42 Sta. 59Lat. 07°10.34'NLocation Long. 166°13.37'WGENERAL MEGASCOPIC DESCRIPTION

0-25cm: Dark brown ( $7.5 \text{ yr}^3/2$ ) nanno bearing rad clay; 48-52% clay, 39-47% rad, 2-10% nanno (aniso min trace). 25-43cm: Dark brown ( $10 \text{ yr}^3/3$ ) nanno bearing clay rich rad ooze; 84% rad, 10% clay, 6% nanno (diatom-sponge-aniso min trace). 43-180cm: Yellowish brown ( $10 \text{ yr}^5/4$ ) to light yellowish brown ( $10 \text{ yr}^6/4$ ) clay bearing rad rich nanno ooze; 75-82% nanno, 10-15% rad, 7-10% clay. 180-805cm: Pale brown ( $10 \text{ yr}^6/3$ ) to yellowish brown ( $10 \text{ yr}^5/4$ ) to brown ( $7.5 \text{ yr}^4/3$ ) to ( $7.5 \text{ yr}^5/3$ ) to dark brown ( $7.5 \text{ yr}^{3.5}/2.5$ ) to very pale brown ( $10 \text{ yr}^7/3$ ) to light yellowish brown ( $10 \text{ yr}^6/4$ ) clay rich rad-nanno ooze; 45-70% nanno, 20-40% rad, 10-20% clay (diatom-sponge trace). 805-1072cm: Very



Rad-clay

Rad ooze

Nanno ooze

Rad-nanno ooze

Parallel layering

Sharp and gradational contacts

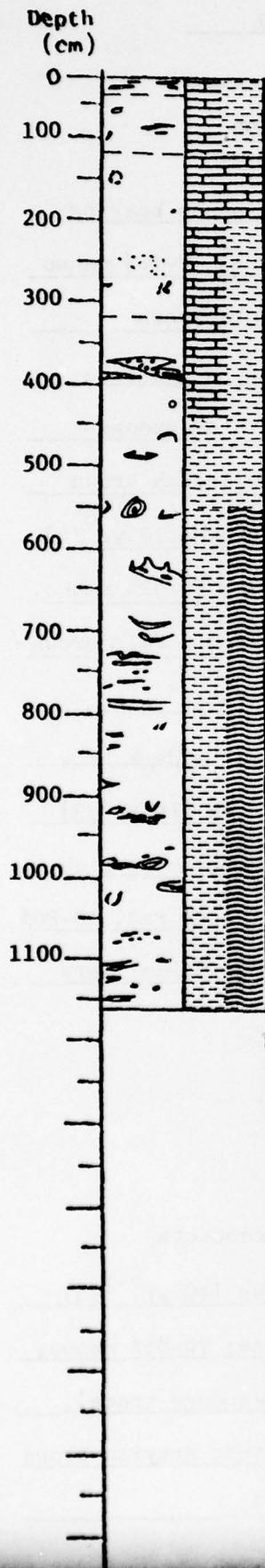
pale brown ( $10 \text{ yr}^{7.5}/3$ ) to brown ( $10 \text{ yr}^{5.5}/3$ ) clay bearing rad rich nanno ooze; 70-85% nanno, 10-20% rad, 5-10% clay (diatom-sponge trace). Parallel layering where indicated; grayish brown ( $10 \text{ yr}^5/2$ ); brown ( $7.5 \text{ yr}^{5.5}/4$ ).

AGE: Upper Miocene



A-92

## GENERAL SUMMARY FORM

Core No. KK72 PCOD 43 Sta. 60Lat. 07°10.40'NLocation Long. 166°12.75'WGENERAL MEGASCOPIG DESCRIPTION

0-110cm: Dark grayish brown ( $10 \text{ yr}^4/2$ ) to very dark grayish brown ( $10 \text{ yr}^3/2$ ) rad rich nanno-clay; 45% clay, 35% nanno, 19% rad (diatom-sponge-aniso min trace). 110-200cm: dark brown ( $10 \text{ yr}^3/3$ ) rad bearing clay rich nanno ooze; 65% nanno, 25% clay, 10% rad (aniso min trace). 200-450cm: Dark Brown ( $7.5 \text{ yr}^3/2$ ) to dark grayish brown ( $10 \text{ yr}^{3.5}/2$ ) rad rich nanno clay; 48-58% clay, 30-37% nanno, 12-15% rad (sponge trace). 450-550cm: Dark grayish brown ( $10 \text{ yr}^{3.5}/2$ ) nanno bearing rad rich clay; 70% clay, 25% rad, 5% nanno (diatom-sponge trace). 550-850cm: Diatom and nanno bearing clay-rad ooze; 54-60% rad, 30-35% clay, 6-8% nanno, 1-2% diatom (sponge trace). 850-1164cm: Dark grayish

|  |                     |
|--|---------------------|
|  | Nanno-clay          |
|  | Nanno ooze          |
|  | Clay                |
|  | Clay-rad ooze       |
|  | Mottling            |
|  | Gradational contact |

brown ( $10 \text{ yr}^{3.5}/2$ ) diatom bearing nanno rich clay-rad ooze; 45-63% rad, 20-35% clay, 10-20% nanno, 0-2% diatom (sponge trace). Very slight to moderate mottling where indicated; colors: very dark grayish brown ( $10 \text{ yr}^3/2$ ); very pale

(cont'd)

A-93

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 43 Sta. 60 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

brown (10 yr<sup>7</sup>/3); brown (10 yr<sup>4</sup>/3); pale brown  
(10 yr<sup>6</sup>/3); dark yellowish brown (10 yr<sup>4</sup>/4).

AGE: Miocene

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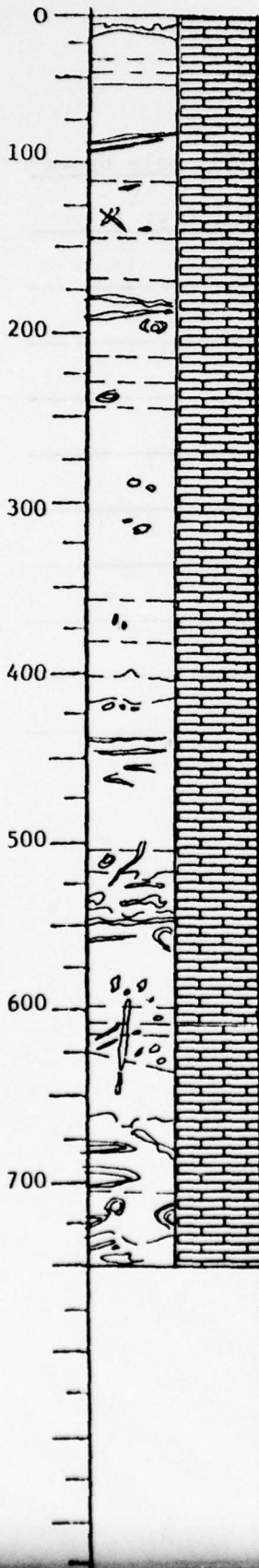
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Logged by: Au

A-94

GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK72 PCOD 44 Sta. 61

Lat. 05°27.50'N

Location Long. 165°28.98'W

GENERAL MEGASCOPIC DESCRIPTION

0-750cm: Very pale brown (10 yr<sup>7</sup>/3) to (10 yr<sup>8</sup>/3) to brown (10 yr<sup>5</sup>/3) to white (10 yr<sup>8</sup>/1) to light gray (10 yr<sup>7</sup>/1) to yellowish brown (10 yr<sup>5</sup>/4) to light yellowish brown (10 yr<sup>6</sup>/4) clay and rad bearing nanno ooze; 81-97% nanno, 1-10% rad, 2-8% clay (aniso min trace). Slight to heavy mottling scattered throughout core as indicated; colors: pale brown (10 yr<sup>6</sup>/3); very pale brown (10 yr<sup>7</sup>/3); yellowish brown (10 yr<sup>5</sup>/4); very dark gray (10 yr<sup>3</sup>/1); light gray (10 yr<sup>7</sup>/1); white (10 yr<sup>8</sup>/1). Parallel layer at 78-80cm depth; light gray (10 yr<sup>7</sup>/1).

AGE: Lower Miocene



Nanno ooze

Mottling

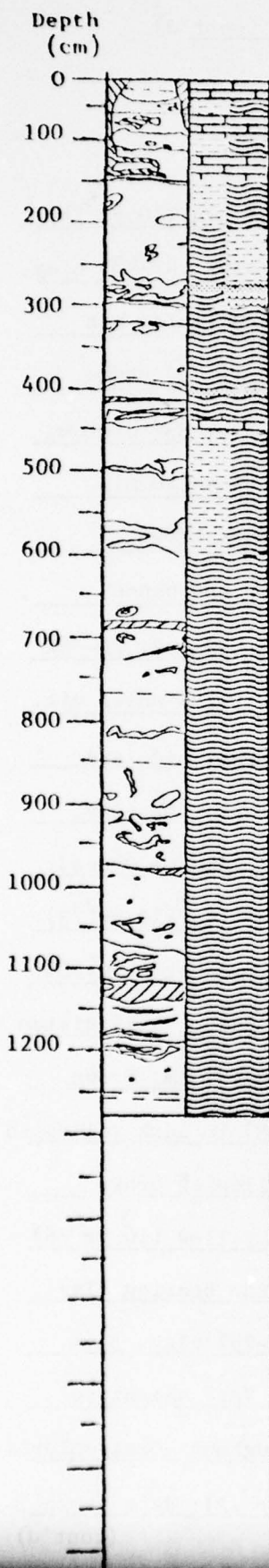
Parallel layering

Sharp and gradational contacts

Logged by: Au and Landmesser



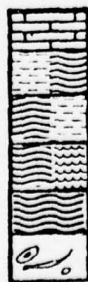
## GENERAL SUMMARY FORM



Core No. KK72 PCOD 45 Sta. 62  
 Lat. 03°16.08'N  
 Location Long. 164°33.26'W

## GENERAL MEGASCOPIC DESCRIPTION

0-33cm: White ( $10\text{ yr}^8/2$ ) to very pale brown ( $10\text{ yr}^8/3$ ) diatom, foram, rad and clay bearing nanno ooze; 80-87% nanno, 6-10% clay, 5% rad, 1-3% foram, 0-2% diatom (aniso min trace).  
 33-56cm: Brown ( $10\text{ yr}^4/3$ ) diatom bearing nanno rich clay-rad ooze; 44% rad, 40% clay, 12% nanno, 4% diatom (aniso min trace). 56-88cm: Very pale brown ( $10\text{ yr}^8/3$ ) rad and clay bearing nanno ooze; 85% nanno, 8% clay, 6% rad (aniso min trace). 88-119cm: Brown ( $10\text{ yr}^4/3$ ) diatom and nanno bearing clay-rad ooze; 57% rad, 35% clay, 6% nanno, 2% diatom. 119-134cm: White ( $10\text{ yr}^8/1$ ) rad and foram bearing clay rich nanno ooze; 76% nanno, 10% clay, 5% foram, 5% rad, 4% aniso min. 134-140cm: White ( $10\text{ yr}^8/2$ )



Nanno ooze  
 Clay-rad ooze  
 Radiolarian-clay  
 Rad-diatom ooze  
 Rad ooze  
 Mottling

rad and clay bearing nanno ooze; 64% nanno, 28% aniso min, 5% clay, 3% rad (foram trace). 140-200cm: Brown ( $10\text{ yr}^4/3$ ) diatom bearing nanno rich clay rad ooze; 38-48% rad, 27-30% clay, 20-25% nanno, 5% diatom (aniso min trace). 200-282cm:

(cont'd)



## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 45 Sta. 62 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

Brown (10 yr<sup>4</sup>/3) to yellowish brown (10 yr<sup>5</sup>/4)  
diatom bearing nanno rich rad clay; 42-48% clay,  
36-41% rad, 10% nanno, 6% diatom (aniso min  
trace). 282-297cm: Brown (10 yr<sup>4</sup>/3) nanno  
bearing clay rich rad-diatom ooze; 33% diatom,  
26% rad, 25% clay, 10% nanno, 5% aniso min  
(sponge trace). 297-435cm: Dark brown  
(10 yr<sup>3</sup>/3) to (10 yr<sup>4</sup>/3) diatom and nanno  
bearing clay rich rad ooze; 43-55% rad, 20-36%  
clay, 4-7% nanno, 2-7% diatom, 0-25% aniso min.  
435-450cm: White (10 yr<sup>8</sup>/2) foram, rad, and  
clay bearing nanno ooze; 82% nanno, 5% clay,  
5% rad, 4% foram, 4% aniso min (diatom trace).  
450-600cm: Dark brown (10 yr<sup>4</sup>/3) to (10 yr<sup>3</sup>/3)  
diatom and nanno bearing clay-rad ooze; 59-66%  
rad, 25-30% clay, 2-7% nanno, 4-7% diatom  
(aniso min trace). 600-1273cm: Brown  
(10 yr<sup>4</sup>/3) to (10 yr<sup>5</sup>/3) to dark yellowish  
brown (10 yr<sup>4</sup>/4) to yellowish brown  
(10 yr<sup>5</sup>/4) to brownish yellow (10 yr<sup>6</sup>/6)  
to pale yellow (2.5 yr<sup>7</sup>/4) diatom bearing clay  
rich rad ooze; 68-72% rad, 22-25% clay, 3-6%  
diatom (nanno-sponge trace). Very slight to  
heavy mottling scattered throughout core; colors:  
very dark grayish brown (10 yr<sup>3</sup>/2); dark brown  
(cont'd)

A-97

## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 45 Sta. 62 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

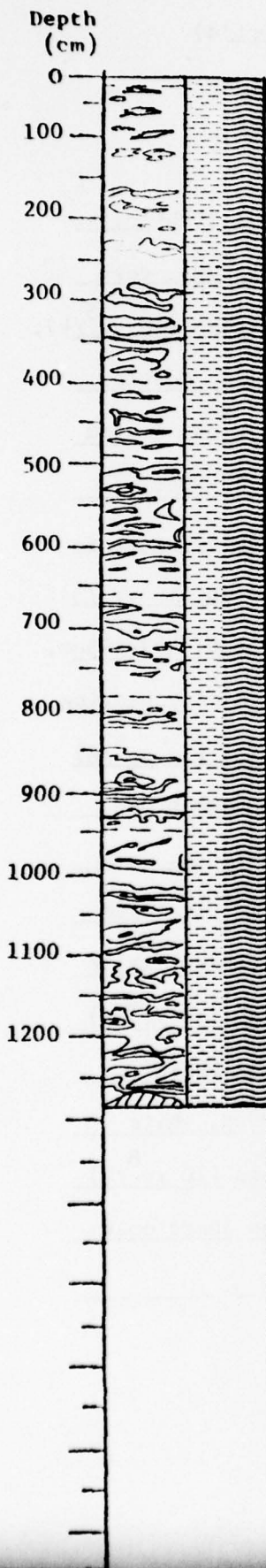
(10 yr<sup>3</sup>/3); olive brown (2.5 y<sup>4</sup>/4); light olive  
brown (2.5 y<sup>5</sup>/6); pale brown (10 yr<sup>6</sup>/3); very  
pale brown (10 yr<sup>7</sup>/3); yellowish brown (10 yr<sup>5</sup>/4);  
yellow (10 yr<sup>7</sup>/6); white (10 yr<sup>8</sup>/1). Mottles  
at 7-13cm of yellowish brown (10 yr<sup>5</sup>/4) diatom  
bearing clay rich rad-nanno ooze; 17-22cm,  
yellowish brown (10 yr<sup>5</sup>/4) diatom bearing clay-  
nanno-rad ooze; 325-330cm, dark brown (10 yr<sup>3</sup>/3)  
foram-rad and clay bearing nanno ooze; 487-495cm,  
pale yellow (2.5 y<sup>8</sup>/4) nanno-diatom-clay bearing  
rad ooze; 593-599cm, brownish yellow (10 yr<sup>6</sup>/6)  
clay-diatom rich rad ooze; 900cm, dark brown  
(10 yr<sup>4</sup>/3) diatom-clay bearing rad ooze.

Layers at 62-64cm, white (10 yr<sup>8</sup>/1) rad-foram  
bearing clay rich nanno ooze; 146-147cm, white  
(10 yr<sup>8</sup>/2); 278-282cm, white (10 yr<sup>8</sup>/2)  
clay-rad-nanno bearing glass shard  
(sanidinite?) ooze; 325-332cm, white  
(10 yr<sup>8</sup>/2); 396-398cm, white (10 yr<sup>8</sup>/2)  
rad bearing clay rich glass shard ooze.

AGE: PlioceneLogged by: Au

A-98

GENERAL SUMMARY FORM



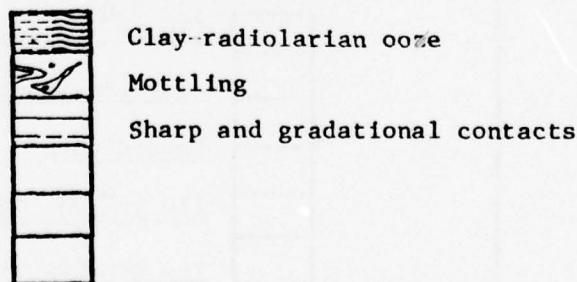
Core No. KK72 PCOD 46 Sta. 63

Lat. 02°26.92'N

Location Long. 164°12.87'W

GENERAL MEGASCOPIIC DESCRIPTION

0-1280cm: Brown (10 yr<sup>5</sup>/3) to (10 yr<sup>4</sup>/3) to dark brown (10 yr<sup>3</sup>/3) to dark yellowish brown (10 yr<sup>4</sup>/4) to very pale brown (10 yr<sup>7</sup>/4) to pale yellow (2.5 yr<sup>7</sup>/3) diatom and nanno bearing clay-rad ooze; 47-70% rad, 25-45% clay, 1-7% nanno, 1-5% diatom, 0-7% aniso min (sponge trace). Slight to moderate mottling in upper 120cm, heavy to moderate in rest of core, densely clustered; colors: very dark grayish brown (10 yr<sup>3</sup>/2); dark brown (10 yr<sup>3</sup>/3) and (10 yr<sup>4</sup>/3); brown (10 yr<sup>5</sup>/3); pale brown (10 yr<sup>6</sup>/3); dark yellowish brown (10 yr<sup>4</sup>/4); yellowish brown (10 yr<sup>5</sup>/4) to (10 yr<sup>5</sup>/6); light yellowish brown (10 yr<sup>6</sup>/4); very pale brown (10 yr<sup>7</sup>/4); pale yellow (2.5 yr<sup>7</sup>/3).

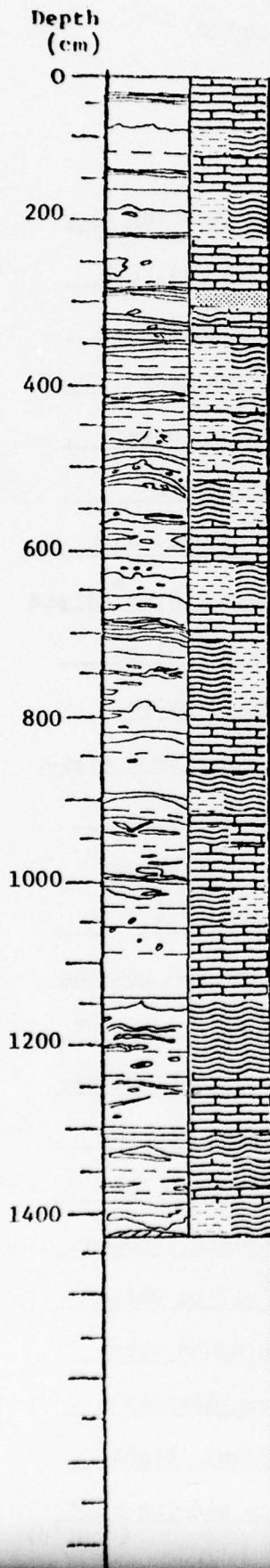


AGE: Miocene

Logged by: Au and Landmesser



## GENERAL SUMMARY FORM

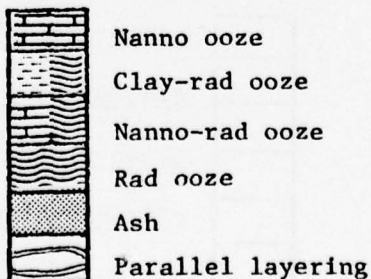
Core No. KK72 PCOD 47 Sta. 64Lat. 01°45.23'NLocation Long. 164°54.73'WGENERAL MEGASCOPIC DESCRIPTION

0-81cm: Light gray ( $10 \text{ yr}^7/2$ ) and ( $10 \text{ yr}^7/1$ ) to very pale brown ( $10 \text{ yr}^7/3$ ) to dark brown ( $10 \text{ yr}^4/3$ ,  $3/3$ ) to white ( $10 \text{ yr}^8/1$ ) rad, clay and foram bearing nanno ooze; 86-88%

nanno, 5-6% foram, 2-4% clay, 2-3% aniso min, 2% rad. 81-118cm: Dark brown ( $10 \text{ yr}^3/3$ ) diatom bearing clay-rad ooze; 55% rad, 40% clay, 4% diatom (nanno-sponge-aniso min trace). 118-

170cm: Light gray ( $10 \text{ yr}^7/2$ ) to white ( $10 \text{ yr}^8/1$ ) rad and clay bearing nanno ooze; 87% nanno, 8% clay, 4% rad (foram-diatom-sponge-aniso min trace). 170-223cm: Dark brown ( $10 \text{ yr}^3/3$ ) diatom bearing nanno rich clay-rad ooze; 51% rad, 32%

clay, 12% nanno, 5% diatom (sponge and aniso min trace). 223-306cm: Light gray ( $10 \text{ yr}^7/2$ )



( $10 \text{ yr}^7/1$ ) to white ( $10 \text{ yr}^8/1$ ) ( $10 \text{ yr}^8/2$ ) to very pale brown ( $10 \text{ yr}^7/3$ ) to light yellowish brown ( $2.5 \text{ yr}^6/4$ ) rad and clay bearing nanno ooze; 81-97% nanno, 1-10% clay, 1-4% rad, 1-5% aniso min (foram-diatom-sponge trace).

(cont'd)



A-100

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

306-317cm: Brown (10 yr<sup>4</sup>/3) diatom bearing clay rich rad-nanno ooze; 40% nanno, 32% rad, 25% clay, 3% diatom (sponge-aniso min trace).

317-335cm: White (10 yr<sup>8</sup>/2) to light gray (10 yr<sup>7</sup>/1) rad and clay bearing nanno ooze; 90% nanno, 6% clay, 2% rad, 2% aniso min

(foram-diatom-sponge trace). 335-380cm: Dark yellowish brown (10 yr<sup>4</sup>/4) to brown (10 yr<sup>4</sup>/3) and (10 yr<sup>5</sup>/3) to very pale brown (10 yr<sup>7</sup>/3) to dark brown (10 yr<sup>3</sup>/3) to very dark grayish

brown (10 yr<sup>3</sup>/2) diatom bearing nanno rich clay-rad ooze; 46% rad, 36% clay, 15% nanno, 3% diatom (sponge-aniso min trace). 380-401cm:

White (10 yr<sup>8</sup>/2) to pale brown (10 yr<sup>6</sup>/3) to very pale brown (10 yr<sup>7</sup>/3) clay and rad bearing

nanno ooze; 85% nanno, 7% aniso min, 4% rad, 3% clay (diatom trace). 401-418cm:

Brown (10 yr<sup>4</sup>/3) diatom-nanno bearing clay-rad ooze; 49% rad, 36% clay, 6% nanno, 6% diatom, 3% aniso min (sponge

trace). 418-428cm: Gray (10 yr<sup>6</sup>/1) to white (10 yr<sup>8</sup>/1) rad bearing clay rich nanno ooze;

86% nanno, 12% clay, 2% rad (foram-diatom-sponge-aniso min trace). 428-433cm: Light

yellowish brown (10 yr<sup>6</sup>/4) diatom bearing clay  
(cont'd)

A-101  
GENERAL SUMMARY FORM

Depth  
(cm)

Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

rich nanno-rad ooze; 49% rad, 35% nanno, 13% clay, 3% diatom, 3% aniso min (sponge-foram trace). 433-451cm: Brown (10 yr<sup>4</sup>/3) diatom bearing clay-rad ooze; 51% rad, 44% clay, 4% diatom (foram-sponge-nanno trace). 451-470cm: Light gray (10 yr<sup>7</sup>/2) rad and foram bearing clay rich nanno ooze; 69% nanno, 18% clay, 5% foram, 4% rad, 3% aniso min (diatom trace).

470-494cm: Light yellowish brown (10 yr<sup>6</sup>/4) to brown (10 yr<sup>4</sup>/3) nanno and diatom bearing clay-rad ooze; 45-51% rad, 41-45% clay, 3-5% diatom, 1-5% nanno, 0-4% aniso min (sponge trace).

494-515cm: White (10 yr<sup>8</sup>/2) to light gray (10 yr<sup>7</sup>/1) and (10 yr<sup>7</sup>/2) rad bearing clay rich nanno ooze; 74% nanno, 15% clay, 7% rad, 3%

|  |   |
|--|---|
|  | aniso min (diatom-foram-sponge trace).                      |
|  | 515-558cm: Dark brown (10 yr <sup>3</sup> /3) rad           |
|  | clay 51% clay, 46% rad (nanno-diatom-                       |
|  | sponge trace). 558-603cm: White (10 yr <sup>8</sup> /2) and |
|  | (10 yr <sup>8</sup> /1) rad and clay bearing nanno          |
|  | ooze; 79-91% nanno, 4-10% clay, 3-10% rad                   |

(foram-diatom-sponge-aniso min trace). 603-655cm: Brown (10 yr<sup>4</sup>/3) clay-rad ooze; 55% rad, 43% clay (nanno-diatom-sponge trace).

655-712cm: Light gray (10 yr<sup>7</sup>/1) to white

(cont'd)

## GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIG DESCRIPTION

(10 yr<sup>8</sup>/1) rad and clay bearing nanno ooze; 91% nanno, 4% clay, 3% rad (foram-diatom-aniso min trace). 712-795cm: Yellowish brown (10 yr<sup>5</sup>/4) to brown (10 yr<sup>4</sup>/3) to very dark grayish brown (10 yr<sup>3</sup>/2) diatom bearing rad clay; 48-51% clay, 47% rad, 1-4% diatom (nanno-sponge trace). 795-854cm: rad and clay bearing nanno ooze; 88-92% nanno, 3-7% clay, 3-5% rad (sponge-ash trace). 854-893cm: Very dark grayish brown (10 yr<sup>3</sup>/2) clay rich nanno rich rad ooze; 62% rad, 25% nanno, 12% clay (diatom-aniso min trace). 893-914cm: Pale brown (10 yr<sup>6</sup>/3) to dark grayish brown (10 yr<sup>4</sup>/2) to yellowish brown (10 yr<sup>5</sup>/4) to very dark grayish brown (10 yr<sup>3</sup>/2) sponge, nanno and diatom bearing clay-rad ooze; 48-50% rad, 32-41% clay, 7-8% diatom, 3-8% nanno, 1-2% sponge (aniso min trace). 914-919cm: Gray (10 yr<sup>6</sup>/1) clay and rad bearing nanno ooze; 90% nanno, 5% rad, 4% clay (aniso min trace). 919-951cm: Dark grayish brown (10 yr<sup>4</sup>/2) diatom bearing clay rich rad-nanno ooze; 55% nanno, 28% rad, 12% clay, 2% diatom, 2% aniso min (sponge trace). 951-1000cm: Light gray (10 yr<sup>7</sup>/2) to dark brown (10 yr<sup>3</sup>/3) to light yellowish brown (10 yr<sup>6</sup>/4)

(cont'd)



A-103

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. EK72 PCOD 47 Sta. 64 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

diatom, rad and clay bearing nanno ooze; 87%  
nanno, 5% clay, 5% rad, 1-2% aniso min, 0-2%  
diatom (foram-sponge trace). 1000-1040cm:  
Very dark grayish brown ( $10 \text{ yr}^3/2$ ) nanno and  
diatom bearing rad clay; 48% clay, 41% rad, 6%  
diatom, 5% nanno (sponge-aniso min trace).  
1040-1149cm: White ( $10 \text{ yr}^8/1$ ) to pale brown  
( $10 \text{ yr}^6/3$ ) to light gray ( $10 \text{ yr}^7/1$ ) clay and  
rad bearing nanno ooze; 89-92% nanno, 5-6% rad,  
2-4% clay (foram-diatom-sponge-aniso min trace).  
1149-1243cm: Yellowish brown ( $10 \text{ yr}^{5.5}/4$ ) to  
brown ( $10 \text{ yr}^4/3$ ) to very dark grayish brown  
( $10 \text{ yr}^3/2$ ) diatom bearing clay rich rad ooze;  
81% rad, 15% clay, 3-4% diatom (nanno-sponge-  
aniso min trace). 1243-1308cm: White ( $10 \text{ yr}^8/2$ )  
( $10 \text{ yr}^8/1$ ) to light gray ( $10 \text{ yr}^7/2.5$ )  
clay and rad bearing nanno ooze; 88%  
nanno, 7% rad, 5% clay (diatom-aniso min  
trace). 1308-1320cm: Brown ( $10 \text{ yr}^5/3$ )  
nanno and clay bearing rad ooze; 88% rad,  
7% clay, 5% nanno (foram-diatom-sponge-aniso min  
trace). 1320-1373cm: Brown ( $10 \text{ yr}^4/3$ ) to dark  
grayish brown ( $10 \text{ yr}^4/2$ ) diatom bearing clay  
rich nanno-rad ooze; 44% rad, 30% nanno, 24%  
clay, 2% diatom (sponge-aniso min trace).

(cont'd)



A-104

GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location \_\_\_\_\_

GENERAL MEGASCOPIC DESCRIPTION

1373-1385cm: light gray (10 yr<sup>7</sup>/2) diatom, clay  
and rad bearing nanno ooze; 81% nanno, 9% rad,  
6% clay, 3% diatom (aniso min trace). 1385-  
1428cm: Dark brown (10 yr<sup>3</sup>/3) diatom bearing  
nanno rich clay-rad ooze; 42-43% rad, 31-32%  
clay, 17-20% nanno, 5% diatom (sponge trace).  
Slight to heavy mottling scattered throughout  
core; colors: very dark grayish brown (10 yr<sup>3</sup>/2);  
grayish brown (10 yr<sup>4</sup>/2); light brownish gray  
(10 yr<sup>6</sup>/2); light gray (10 yr<sup>7</sup>/2) (10 yr<sup>6</sup>/1);  
dark brown (10 yr<sup>3</sup>/3); brown (10 yr<sup>4</sup>/3); pale  
brown (10 yr<sup>6</sup>/3); very pale brown (10 yr<sup>7</sup>/3)  
dark yellowish brown (10 yr<sup>4</sup>/4); yellowish  
brown (10 yr<sup>5</sup>/4); light yellowish brown (10 yr<sup>6</sup>/4);  
white (10 yr<sup>8</sup>/1). Thin bedded, densely clustered

layers common throughout upper 970cm;  
mostly gray to white nanno ooze.

Parallel layering at 22-50cm, 1cm thick-  
ness, white (10 yr<sup>8</sup>/1) to light gray  
(10 yr<sup>7</sup>/1) carbonate ooze; 140-147cm,

1 to 2cm thickness, light gray (10 yr<sup>7</sup>/1);  
225-232cm, 1cm thickness, light gray (10 yr<sup>7</sup>/1)  
to (10 yr<sup>7</sup>/2); 284-298cm, 1cm thickness, light  
gray (10 yr<sup>7</sup>/1) to white (10 yr<sup>8</sup>/1) ash; 298-  
302cm, 1cm thickness, very pale brown (10 yr<sup>7</sup>/3);

(cont'd)

### GENERAL SUMMARY FORM

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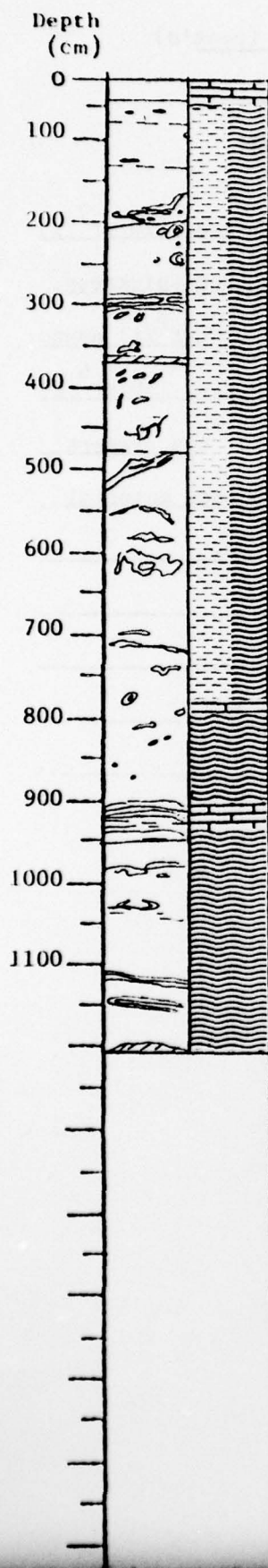
### Location

415-421cm, 2mm thickness, light gray (10 yr<sup>7</sup>/1)  
to white (10 yr<sup>8</sup>/2); 609-710cm, 2cm thickness,  
light gray (10 yr<sup>7</sup>/1) to white (10 yr<sup>8</sup>/1) nanno  
ooze; 956-960cm, light brownish gray (10 yr<sup>6</sup>/2)  
to white (10 yr<sup>8</sup>/1) nanno chalk. Ash present  
in layers from 284-298cm and in base material  
from 795-806cm and from 812-818cm.

AGE: Quaternary

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## GENERAL SUMMARY FORM

Core No. KK72 PCOP 48 Sta. 65Lat. 04°13.71'NLocation Long. 165°49.84'WGENERAL MEGASCOPIC DESCRIPTION

0-35cm: White ( $10 \text{ yr}^8/1$ ) rad and clay bearing nanno ooze; 95% nanno, 2% clay, 2% rad (foram-diatom-aniso min. trace). 35-45cm: Dark brown ( $10 \text{ yr}^3/3$ ) diatom and nanno bearing rad clay; 53% clay, 37% rad, 7% nanno, 3% diatom (sponge trace). 45-175cm: Dark brown ( $10 \text{ yr}^3/3$ ) ( $7.5 \text{ yr}^3/2$ ) to dark grayish brown ( $10 \text{ yr}^{3.5}/2$ ) diatom bearing nanno rich clay-rad ooze; 42-49% rad, 32-42% clay, 12-20% nanno, 1-5% diatom. 175-768cm: Dark grayish brown ( $10 \text{ yr}^{3.5}/2$ ) to dark brown ( $10 \text{ yr}^4/3$ ) ( $10 \text{ yr}^3/3$ ) ( $7.5 \text{ yr}^3/2$ ) to yellowish brown ( $10 \text{ yr}^5/4$ ) to dark yellowish brown ( $10 \text{ yr}^4/4$ ) to light olive brown ( $2.5 \text{ yr}^5/4$ ) diatom and nanno bearing clay-rad ooze; 46-51% rad, 38-44% clay, 4-8% nanno,



Nanno ooze

Radiolarian-clay

Clay-radiolarian ooze

Radiolarian ooze

Mottling

Parallel layering

1-6% diatom (sponge trace). 768-788cm: Light gray ( $2.5 \text{ yr}^7/2$ ) to white ( $5 \text{ yr}^8/1$ ) clay and rad bearing nanno ooze; 87% nanno, 8% rad, 4% clay (aniso min-foram trace). 788-897cm: Brownish yellow ( $10 \text{ yr}^6/6$ ) to brown ( $10 \text{ yr}^4/3$ ) diatom

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GENERAL SUMMARY FORM

Depth  
(cm)

0

Core No. KK72 PCOD 48 Sta. 65 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

bearing clay rich rad ooze; 77% rad, 15% clay,

6% diatom (nanno-sponge trace). 897-934cm:

Light brownish gray (2.5 y<sup>6</sup>/2) to light gray

(2.5 y<sup>7</sup>/2) (10 yr<sup>7</sup>/1) to white (10 yr<sup>8</sup>/2)

diatom bearing rad and clay rich nanno ooze;

58-62% nanno, 25% clay, 10% rad, 1-5% diatom

(sponge-aniso min trace). 934-1202cm: Pale

yellow (2.5 y<sup>7</sup>/4) to very pale brown (10 yr<sup>7</sup>/4)

to brown (10 yr<sup>4</sup>/3) diatom and nanno bearing

clay rich rad ooze; 62-64% rad, 25% clay, 5-7%

nanno, 5% diatom (sponge trace). Slight to

heavy mottling scattered throughout core where

indicated; colors: black (10 yr<sup>2.5</sup>/1); very dark

grayish brown (10 yr<sup>3</sup>/2); grayish brown

(10 yr<sup>5</sup>/2); dark brown (10 yr<sup>3</sup>/3); brown

(10 yr<sup>4</sup>/3) (10 yr<sup>5</sup>/3); pale brown

(10 yr<sup>6</sup>/3); very pale brown (10 yr<sup>7</sup>/3)

(10 yr<sup>7</sup>/4) (10 yr<sup>6.5</sup>/4); dark yellowish

brown (10 yr<sup>4</sup>/4); yellowish brown

(10 yr<sup>5</sup>/4) (10 yr<sup>5</sup>/5); brownish yellow

(10 yr<sup>6</sup>/6); olive brown (2.5 y<sup>4</sup>/4); light olive

brown (2.5 y<sup>5</sup>/4); olive yellow (2.5 y<sup>6</sup>/6);

yellow (2.5 y<sup>8</sup>/6); pale yellow (2.5 y<sup>7</sup>/4); light

gray (2.5 y<sup>7</sup>/2); white (5 y<sup>8</sup>/1). Parallel layer-

ing at 924-928cm; color: gray (10 yr<sup>6</sup>/1).

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Logged by: Au, Landmesser & Busch



### GENERAL SUMMARY FORM

Core No. KK72 PCOD 48 Sta. 65 (cont'd)

**Location** \_\_\_\_\_

### GENERAL MEGASCOPIIC DESCRIPTION

320-333cm: Light olive brown ( $2.5 y^5/4$ ).

1125-1135cm: Very pale brown (10 yr<sup>7</sup>/4).

359-362cm, 1195-1202cm: Void.

AGE: Upper Miocene

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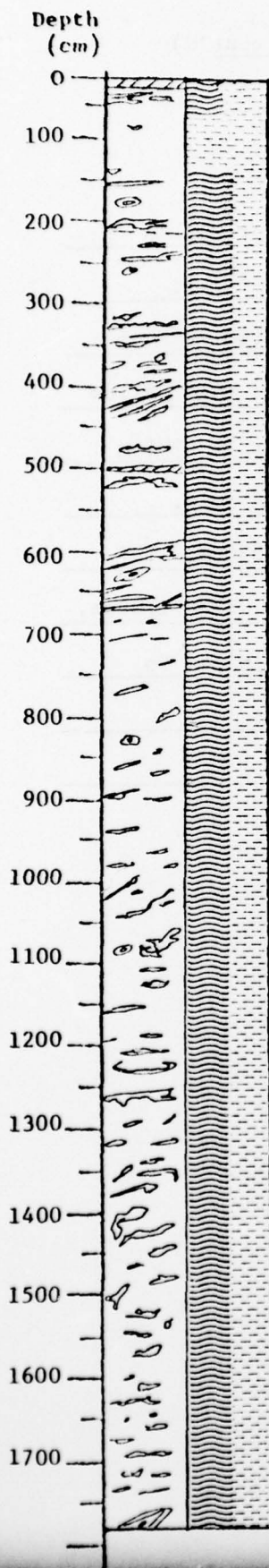
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Logged by: Au, Landmesser & Busch

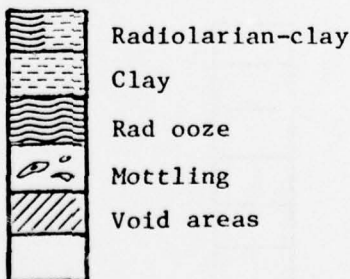
## GENERAL SUMMARY FORM



Core No. KK72 PCOD 49 Sta. 65  
 Lat. 04°22.74'N  
 Location Long. 165°52.99'W

## GENERAL MEGASCOPIC DESCRIPTION

0-60cm: Dark grayish brown ( $10 \text{ yr}^4/2$ ) diatom and nanno bearing radiolarian clay; 55-70% clay, 20-37% rad, 2-5% nanno, 0-3% diatom (sponge trace). 60-125cm: Dark grayish brown ( $10 \text{ yr}^4/2$ ) nanno and rad rich clay; 70-80% clay, 10-20% rad, 10% nanno. 125-209cm: Dark grayish brown ( $10 \text{ yr}^4/2$ ) diatom and nanno bearing rad clay; 50-54% clay, 36-42% rad, 1-10% nanno, 3% diatom (sponge trace). 209-1788cm: Very dark grayish brown ( $10 \text{ yr}^3/2$ ) to ( $10 \text{ yr}^{3.5}/2$ ) to dark brown ( $10 \text{ yr}^3/2.5$ ) ( $10 \text{ yr}^{3.5}/2.5$ ) ( $10 \text{ yr}^4/2.5$ ) ( $10 \text{ yr}^{3.5}/3$ ) ( $7.5 \text{ yr}^3/2$ ) to brown ( $10 \text{ yr}^{4.5}/2.5$ ) ( $10 \text{ yr}^4/3$ ) ( $10 \text{ yr}^{4.5}/3$ ) diatom bearing rad-clay; 50-73% clay, 25-47% rad, 1-5% diatom (nanno trace).



Very slight to heavy mottles scattered rather sparsely throughout core; colors: very dark grayish brown ( $10 \text{ yr}^3/1.5$ ) to ( $10 \text{ yr}^3/2$ ); dark grayish brown ( $10 \text{ yr}^4/2$ ) to ( $10 \text{ yr}^4/2.5$ ); light gray ( $10 \text{ yr}^7/2$ ); brown ( $10 \text{ yr}^4/3$ ); pale brown

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### GENERAL SUMMARY FORM

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**Location** \_\_\_\_\_

### GENERAL MEGASCOPIIC DESCRIPTION

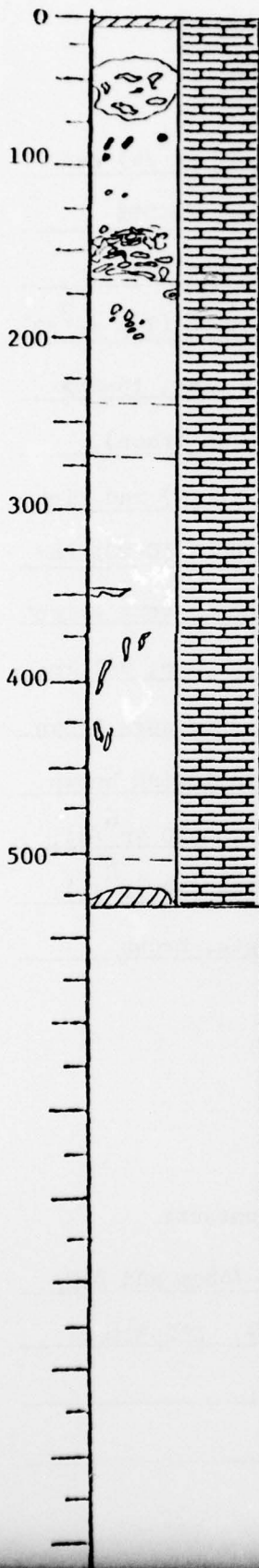
(10 yr<sup>6</sup>/3); very pale brown (10 yr<sup>7</sup>/3) to  
(10 yr<sup>8</sup>/3) to (10 yr<sup>7</sup>/4) to (10 yr<sup>8</sup>/4);  
yellowish brown (10 yr<sup>4.5</sup>/4) to (10 yr<sup>5</sup>/4);  
light yellowish brown (10 yr<sup>6</sup>/4); pale yellow  
(2.5 yr<sup>7</sup>/4). Moderate mottling at 343-346cm  
of pale brown (10 yr<sup>6</sup>/3) clay-rad ooze.  
Slight to heavy mottling at 800-830cm, 1127-  
1134cm, 1268-1273cm, 1578-1593cm, 1785-1788cm,  
of brown (10 yr<sup>7</sup>/3) to (10 yr<sup>7</sup>/4) to  
(10 yr<sup>8</sup>/4) clay rich rad ooze.

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GENERAL SUMMARY FORM

Depth  
(cm)



Core No. KK12 PCOD 50 Sta. 66

Lat. 04°42.25'N

Location Long. 165°37.37'W

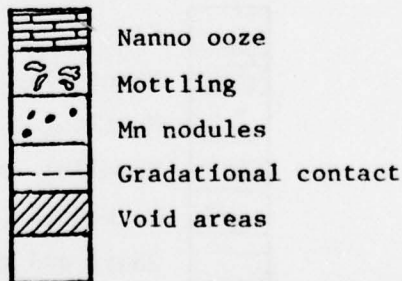
GENERAL MEGASCOPIC DESCRIPTION

0-530cm: White ( $10 \text{ yr}^8/2$ ) to ( $10 \text{ yr}^8/2.5$ ) to very pale brown ( $10 \text{ yr}^7/3$ ) ( $10 \text{ yr}^8/3$ ) rad and clay rich nanno ooze; 74-78% nanno, 10-12% clay, 10-12% rads (diatom-aniso min. trace). Slight to heavy mottling scattered sparsely through most of core; colors: black ( $10 \text{ yr}^{2.5}/1$ ), very dark grayish brown ( $10 \text{ yr}^4/2$ ), very pale brown ( $10 \text{ yr}^7/3$ ) to ( $10 \text{ yr}^{7.5}/3$ ) to ( $10 \text{ yr}^8/3$ ) to white ( $10 \text{ yr}^8/1$ ) to ( $10 \text{ yr}^8/2$ ) to ( $10 \text{ yr}^8/2.5$ ).

Four Mn nodules found at 86-92cm depth. 0-3cm,

78-79cm, 520-530cm: Void.

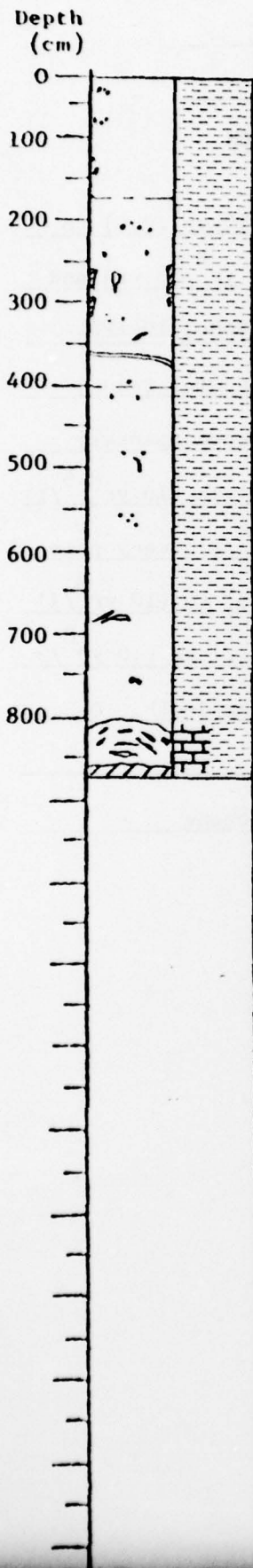
AGE: Upper Oligocene-Lower Miocene





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GENERAL SUMMARY FORM



Core No. KK72 PCOD 51 Sta. 67

Lat. 12°44.39'N

Location Long. 161°59.44'W

GENERAL MEGASCOPIC DESCRIPTION

0-179cm: Dark yellowish brown (10 yr<sup>4</sup>/4) rad

and nanno rich clay; 63-70% clay, 20-25%

nanno, 10-12% rad (aniso min. trace).

179-810cm: Dark brown (10 yr<sup>3</sup>/3) to (7.5 yr<sup>3</sup>/2)

rad and nanno rich clay; 70-75% clay, 15-20%

nanno, 10-15% rad (aniso min-foram trace).

810-865cm: Yellowish brown (10 yr<sup>5</sup>/4) rad rich

nanno clay; 60% clay, 20-30% nanno, 10-20% rad

(aniso min-foram trace). Slight to very slight

mottling where indicated through core; colors:

very dark grayish brown (10 yr<sup>3</sup>/2); dark brown

(10 yr<sup>3</sup>/3); brown (10 yr<sup>5</sup>/3); yellowish brown

(10 yr<sup>5</sup>/6); light yellowish brown (10 yr<sup>6</sup>/4);

reddish yellow (7.5 yr<sup>7</sup>/6); white (10 yr<sup>8</sup>/1).

Parallel layer at 359-361cm depth, brown



Clay

Nanno-clay

Mottling

Parallel layering

Mn nodules

Sharp and gradational contacts

(10 yr<sup>4</sup>/3). Mn nodules at 767-768cm and 819-

822cm depth (1-2.5 cm diameter). 262-310cm:

Partial void. 858-865cm: Void.

AGE: Quaternary

Logged by: Au

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

| REPORT DOCUMENTATION PAGE  |  | READ INSTRUCTIONS<br>BEFORE COMPLETING FORM |
|--|--|---|
| 1. REPORT NUMBER<br>HIG-76-13; Data Report No. 32  | 2. GOVT ACCESSION NO.  | 3. RECIPIENT'S CATALOG NUMBER               |
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| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number)<br>Marine geology Eastern Pacific Ocean<br>Sediment cores Western Pacific Ocean<br>Megascopic descriptions  |  |   |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number)<br>V Megascopic descriptions are presented of deep-sea sediment cores obtained by the Hawaii Institute of Geophysics on cruises of the R/V KANA KEOKI in the eastern and western Pacific Ocean during 1972.<br>Location of ship tracks and coring stations are shown. Corrected satellite navigation-determined coordinates for each coring operation are indicated, and water depth, length of core, and age of oldest sediment in the cores are given. |  |   |

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EDITION OF 1 NOV 65 IS OBSOLETE  
S/N 0102-014-6601

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